

**CooverClark**

**LANDSCAPE LEGEND**

- SCORED CONCRETE PATIO (TOOLED JOINTS)
- ROCK MULCH
- SEEDING LAWN
- PERENNIALS AND GROUND COVER
- SHRUB MASS
- SITE SIGN, RE: W-001
- DECIDUOUS TREE (14 NEW)
- EXISTING TREE
- CONIFEROUS TREE (9 NEW)
- EXISTING CONIFEROUS TREE

PLANT LIST				
NOTE: GC TO VERIFY QUANTITIES				
KEY SHADE TREES	BOTANIC NAME	COMMON NAME	SIZE	REMARKS
CO	Celtis occidentalis	HACKBERRY	2'-2 1/2"	
FAA	Fraxinus americana var.	AUTUMN PURPLE ASH	2'-2 1/2"	
TCG	Tilia cordata Greenspire	GREENSPIRE LINDEN	2'-2 1/2"	
UA	Ulmus Americana	FRONTIER AMERICAN ELM	2'-2 1/2"	
ORNAMENTAL TREES				
PYR	Pyrus calleryana	REDSPIRE PEAR	1 1/2'-2"	
EVERGREEN TREES				
PN	Pinus nigra	AUSTRIAN PINE	6'-8"	BB
PP	Picea pungens	COLORADO SPRUCE	6'-8"	BB
DECIDUOUS SHRUBS				
CAR	Caragana arborescens	SIBERIAN PEASHRUB	5 GAL	3'-4"
PBP	Prunus besseyi var.	PAWNEE BUTLES SANDCHERRY	5 GAL	3'-4"
PF	Potentilla fruticosa var.	GOLDFINGER POTENTILLA	5 GAL	3'-4"
PHD	Physocarpus opulifolius	DIABLO NINEBARK	5 GAL	3'-4"
RAL	Ribes alpinum	ALPINE CURRANT	5 GAL	2'-3"
SMK	Syringa palata var.	MISS KIM LILAC	5 GAL	2'-3"
SYM	Symphoricarpos var.	HANCOCK CORALBERRY	5 GAL	1'-2"
VL	Viburnum lantana	WAYFARINGTREE VIBURNUM	5 GAL	3'-4"
EVERGREEN SHRUBS				
JSB	Juniperus sabina broadmoor	BROADMOOR JUNIPER	5 GAL	24" MIN SPREAD
EKM	Euonymus kiautschowica	MANHATTAN EVONYMUS	5 GAL	2'-3" HT. MIN.
GROUND COVER/PERENNIALS				
AQ	Aquilegia var.	BLUE COLUMBINE	1 QUART	
AST	Aster var.	ALPINE ASTER	1 QUART	
DEL	Delosperma cooperii	HARDY ICE PLANT	1 QUART	
LEU	Leucanthemum var.	ALASKA DAISY	1 QUART	
PHX	Phlox subulata	CREEPING PHLOX	1 QUART	
SJC	Sedum var.	JOHN CREECH SEDUM	1 QUART	
VM	Vinca minor Bowles	BOWLES VINCA	1 QUART	
ORNAMENTAL GRASSES				
MIS	Miscanthus sinensis var.	VARIEGATED MAIDEN GRASS	5 GAL	2'-3"

**OVERALL LANDSCAPE PLAN**  
1 L-101  
NOTE: SIGNS, RE: L-102

Revisions:

Date

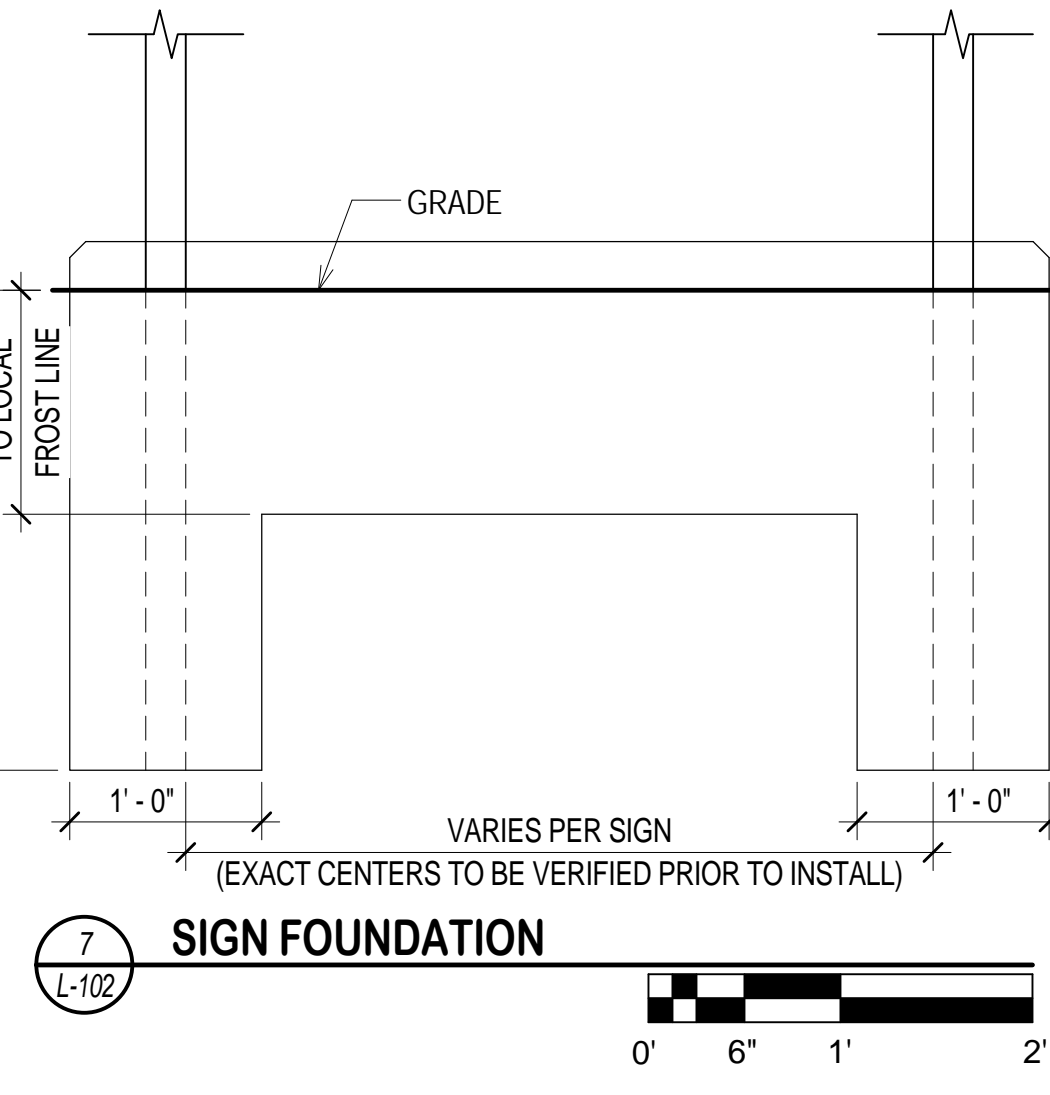
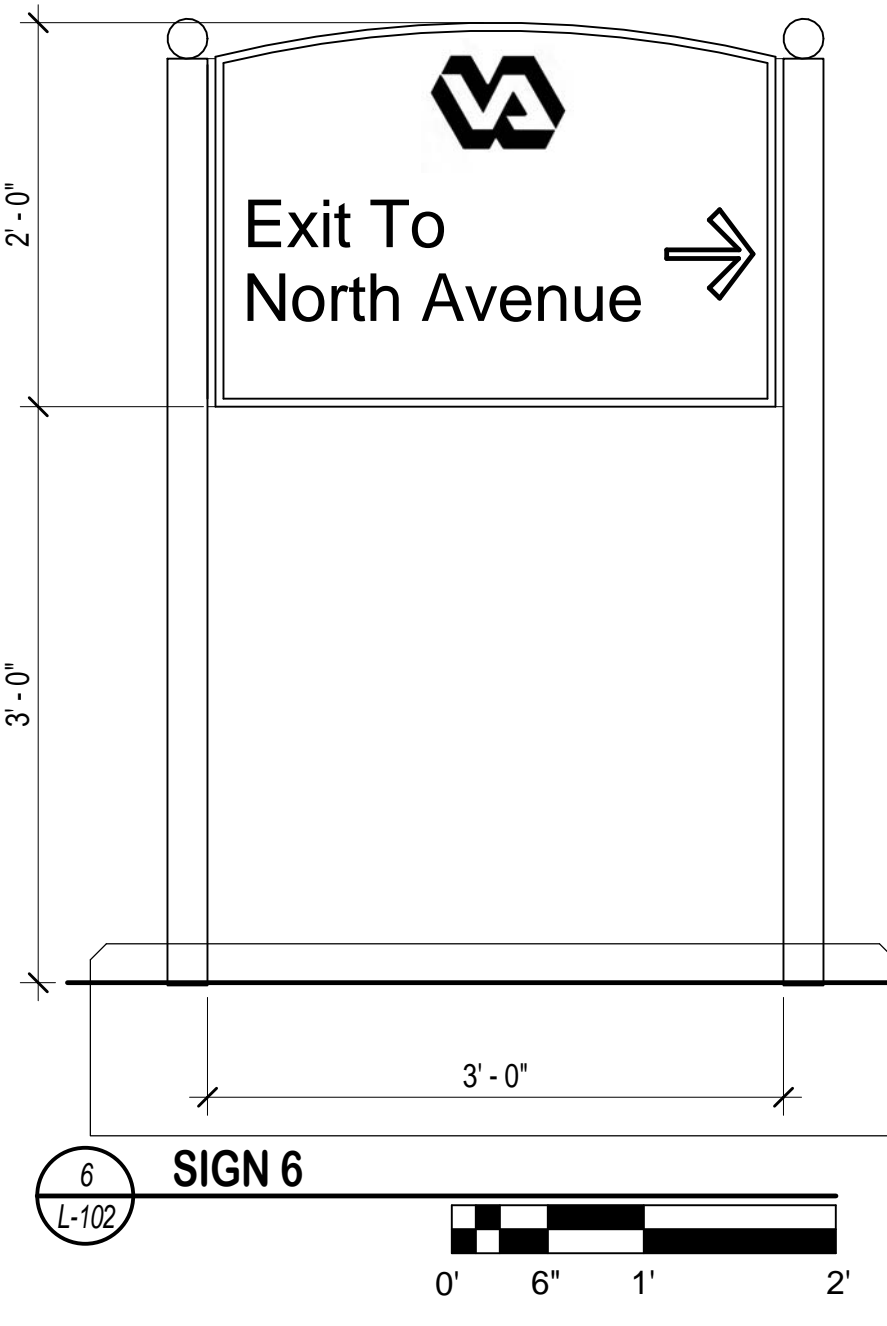
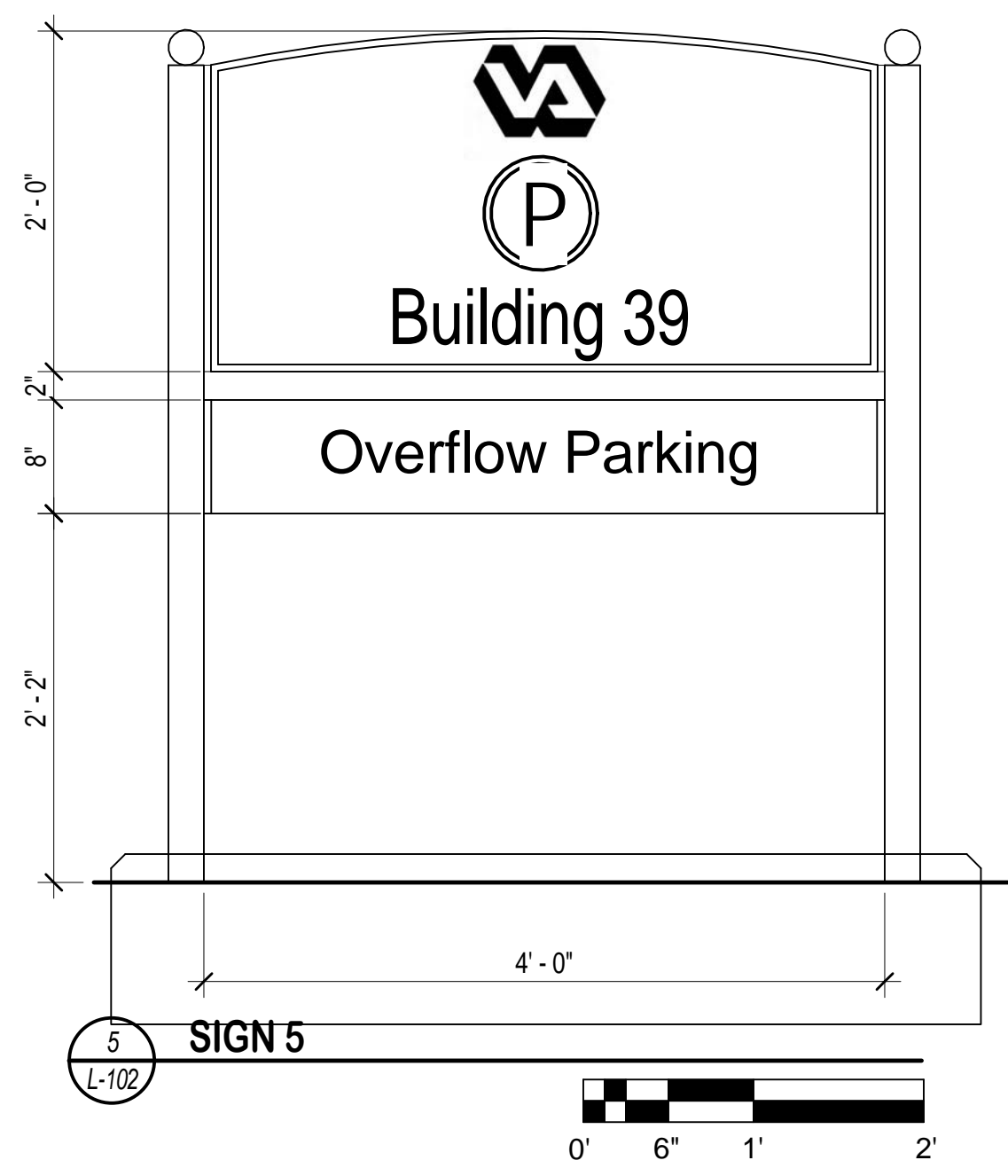
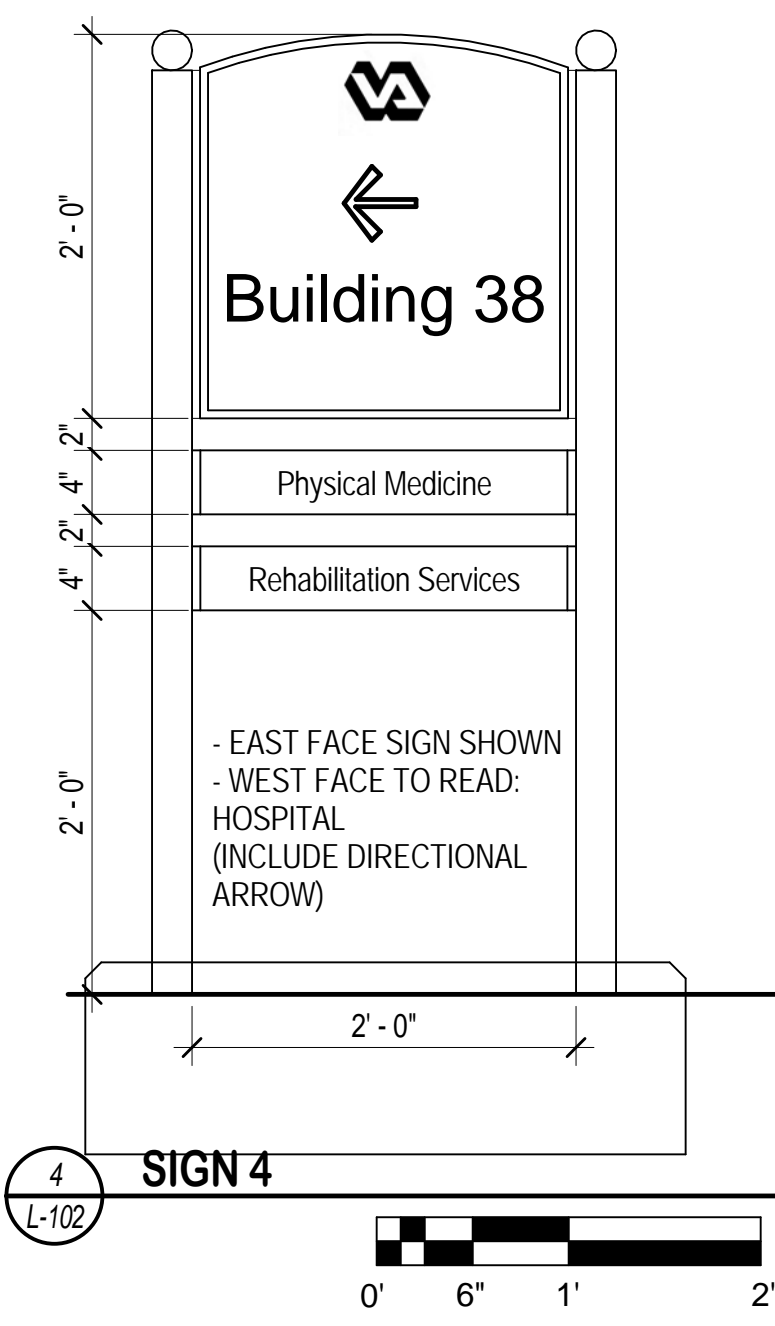
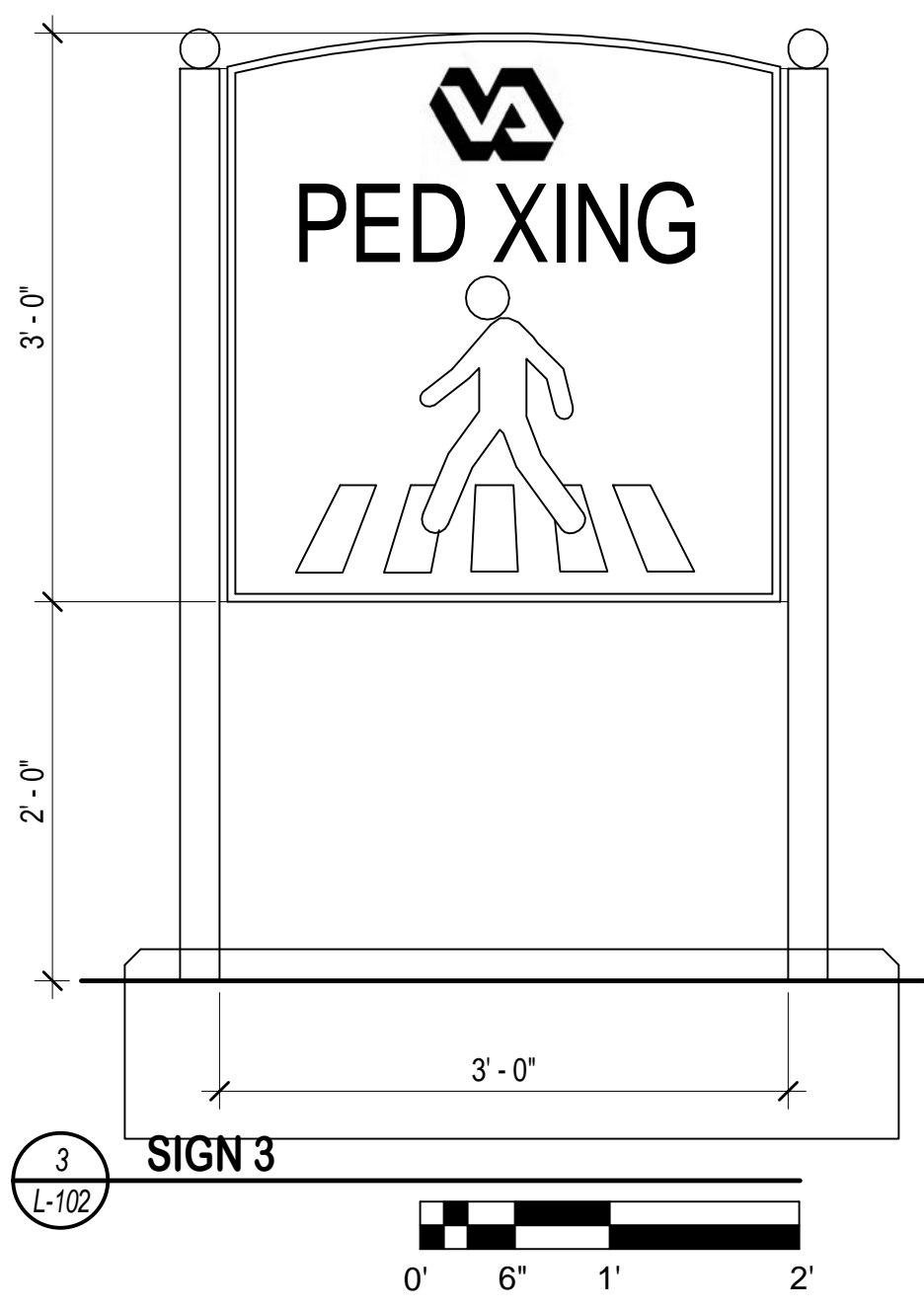
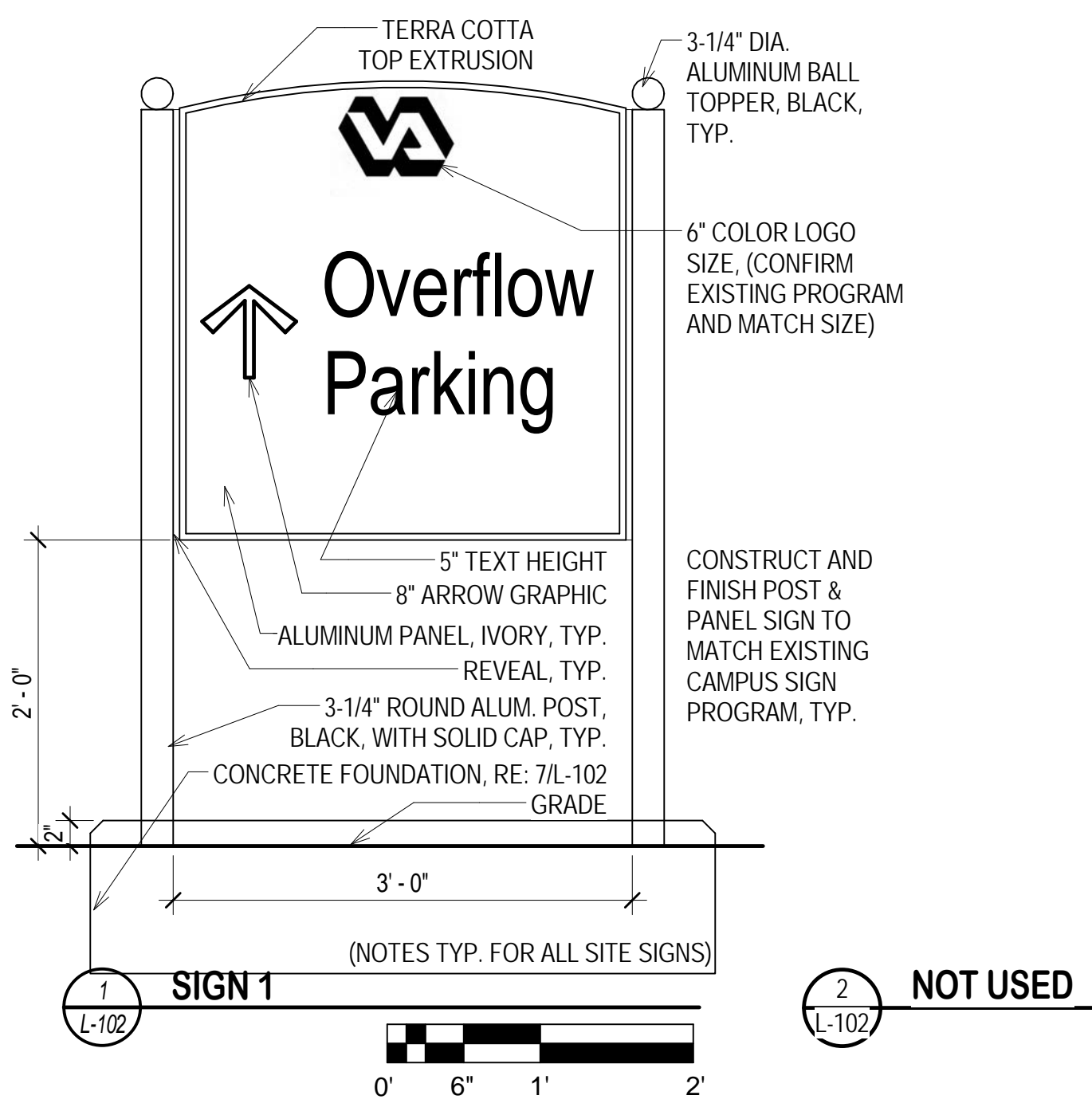
Grand Junction VA Medical Center  
2121 North Avenue  
Grand Junction, CO 81501

MEP: ARCHITECTURE: TRAFFIC/STRUCTURE: PROJECT LEADER/ARCHITECT:

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SUSTAINABLE ARCHITECTURE + ENGINEERING

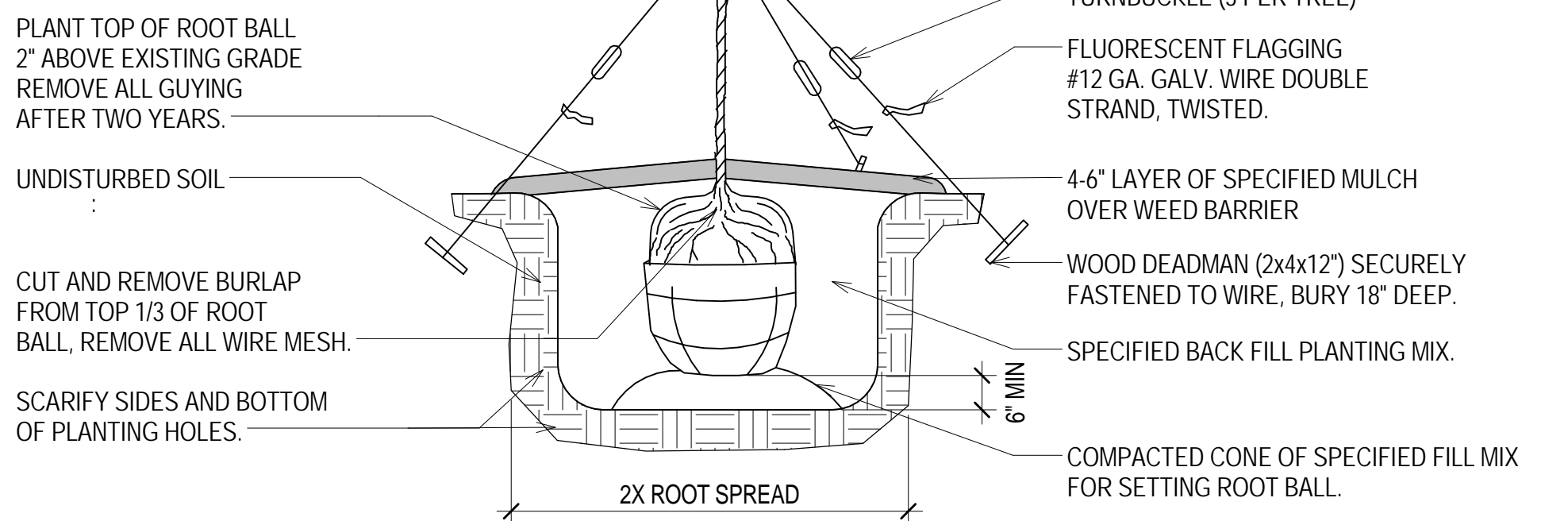
Drawing Title	Project Title	Project Number	OFFICE OF FACILITIES MANAGEMENT
OVERALL LANDSCAPE PLAN	PARKING STRUCTURE	12.1042	
Approved for Design Concept:	Location	Drawing Number	VA Project Number
John Bartman John.Bartman@va.gov 970-263-5016	Grand Junction VA	L-101	575-206
	Date	Checked By:	Department of Veterans Affairs
	3/10/2014	VR	
		Drawn By:	
		JNK	





NOTE:

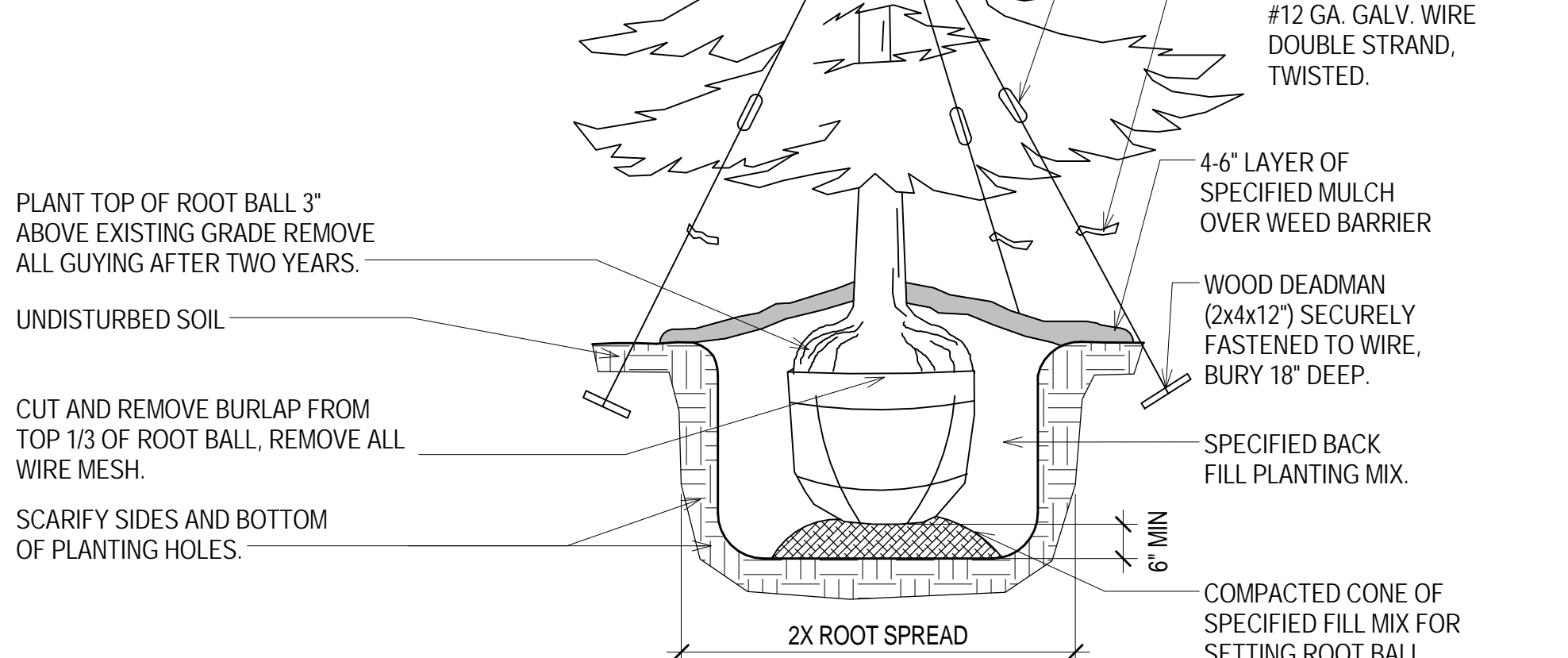
- DO NOT CUT LEADER
- PRUNE DAMAGED OR DEAD WOOD IMMEDIATELY PRIOR TO PLANTING.
- ALTERNATIVE STAKING AND GUYING MAY BE SUBSTITUTED UPON APPROVAL BY LANDSCAPE ARCHITECT. (I.E. POSTS INSTEAD OF DEADMEN)
- GUY WIRES TO BE REMOVED BY G.C. 2 YEARS AFTER INSTALLATION



8 L-102 DECIDUOUS TREE DETAIL

NOTE:

- DO NOT CUT LEADER
- PRUNE DAMAGED OR DEAD WOOD IMMEDIATELY PRIOR TO PLANTING.
- ALTERNATIVE STAKING AND GUYING MAY BE SUBSTITUTED UPON APPROVAL BY LANDSCAPE ARCHITECT. (I.E. POSTS INSTEAD OF DEADMEN)

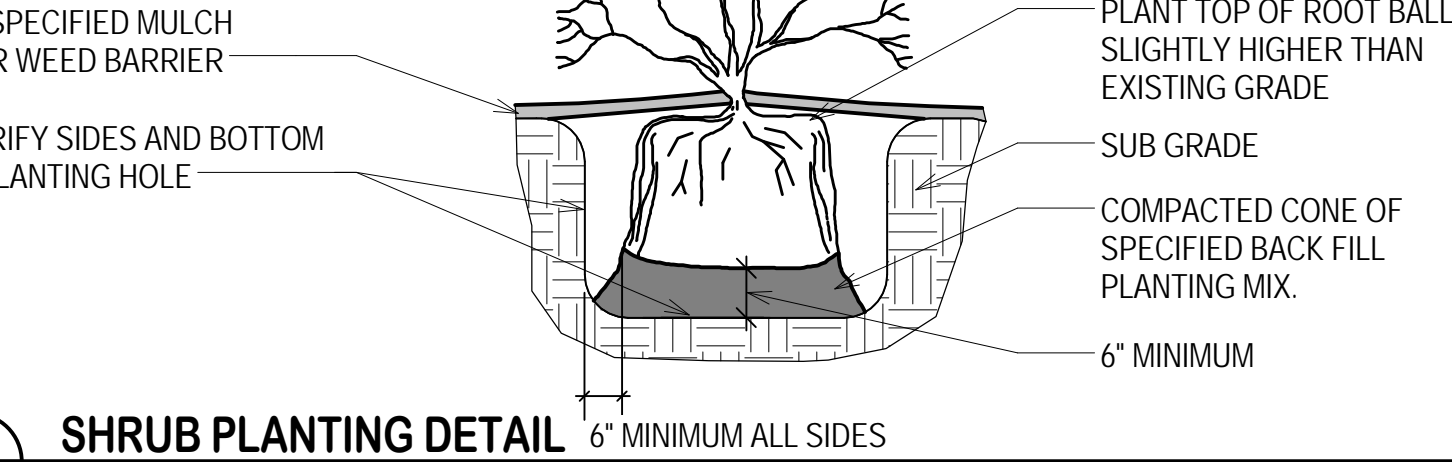


12 L-102 EVERGREEN TREE DETAIL

CONTRACTION JOINTS AT 6'-0" O.C., TYP.

INTEGRALLY COLORED BROWN CONCRETE (TO MATCH HOSPITAL) WITH 24"X24" SCORE PATTERN, IN THE CENTER AREA ONLY

9 L-102 PLAZA MEMORIAL PLAN



13 L-102 SHRUB PLANTING DETAIL

LANDSCAPE NOTES

- THE CONTRACTOR SHALL NOT CHANGE OR SUBSTITUTE PLANT VARIETIES OR SPECIES WITHOUT THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT.
- ALL LANDSCAPE MATERIAL INSTALLATION SHALL CONFORM TO THE CURRENT STANDARDS OF THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION (ANLA) AND IS SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- THE CONTRACTOR SHALL MAKE PERIODIC INSPECTIONS OF THE PROJECT DURING THE WARRANTY PERIOD TO SATISFY THEMSELVES THAT ESTABLISHMENT AND RATE OF GROWTH ARE ADEQUATE. ANY METHODS OR PROJECTS DEEMED NOT NORMAL OR THAT ARE DETRIMENTAL TO GOOD PLANT GROWTH SHALL BE PROMPTLY REPORTED TO THE LANDSCAPE ARCHITECT IN WRITING.
- REFER TO THE GRADING PLAN FOR ROUGH GRADES OF PLANTING BEDS. FINAL GRADES ARE SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IN ALL AREAS, PROVIDING A MINIMUM SLOPE OF 2% THROUGHOUT THE LANDSCAPE.
- CONTRACTOR SHALL COORDINATE WITH MECHANICAL ENGINEER TO DETERMINE LOCATION AND SIZE OF PROPOSED TAP FOR IRRIGATION SYSTEM. THE LANDSCAPE PLAN INDICATES A LOCATION FOR THE IRRIGATION BACKFLOW PREVENTER, BUT IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE TAP, BACKFLOW PREVENTER AND IRRIGATION MAIN DESIGN, COORDINATION AND CONSTRUCTION. CONTRACTOR SHALL DESIGN AND SUBMIT COMPLETE IRRIGATION PLANS, DETAILS AND SPECIFICATIONS FOR ALL PLANTED AREAS TO LANDSCAPE ARCHITECT FOR REVIEW. CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM LANDSCAPE ARCHITECT FOR PROPOSED IRRIGATION SYSTEM PRIOR TO INSTALLATION. IRRIGATION SYSTEM SHALL BE COMPLETE AND FULLY FUNCTIONAL, PROVIDING OPTIMUM MOISTURE LEVELS TO ALL PLANTINGS AND LAWN AREAS INCLUDED WITHIN LIMITS OF CONSTRUCTION. DRIP IRRIGATION SHALL BE USED FOR ALL TREE AND SHRUB PLANTINGS. ROTOR HEAD OR POP-UPS MAY BE USED FOR LAWN AREAS.
- IRRIGATION CONTROLS SHALL BE LOCATED IN THE GARAGE STORAGE ROOM 103, ON THE WEST WALL, AT THE OWNER'S OPTION. THE CONTRACTOR MAY BE REQUIRED TO TIE THE PROJECT'S IRRIGATION SYSTEM INTO THE OWNER'S EXISTING IRRIGATION CONTROL. IF THIS IS ACCEPTED BY THE OWNER, THIS SHALL BE COORDINATED, DESIGNED AND PROVIDED BY THE CONTRACTOR WITHIN THE BID PRICE.
- LAWN AREAS SHALL BE EDGED WHERE ADJACENT TO MULCHED BEDS. 3/16" x 4" STEEL EDGER SHALL BE SECURELY STAKED, SET FLUSHED WITH TOP OF MULCH AND SOD. LAYOUT EDGER IN SMOOTH CURVES AS SHOWN ON PLAN. KINKS OR MISMATCHED ENDS ARE UNACCEPTABLE.
- ROCK MULCH SHALL BE ROUND RIVER ROCK, 1-1/2" TO 2" DIAMETER, COLOR: MIX OF GRAY, TAN, BLACK AND REDDISH BROWN TO MATCH EXISTING ROCK MULCH ON THE CAMPUS. UNO. SUBMIT MULCH AND WEED BARRIER SAMPLE TO LANDSCAPE ARCHITECT FOR REVIEW. OBTAIN APPROVAL PRIOR TO INSTALLATION. PLACE MULCH IN 4" MINIMUM DEPTH LAYER TO 6" MAXIMUM DEPTH LAYER OVER GEOTEXTILE HEAVY DUTY WEED BARRIER. COORDINATE FINAL LANDSCAPE GRADES TO ALLOW TOP OF ROCK MULCH (AFTER FULL DEPTH INSTALLATION) TO BE 1" BELOW THE LEVEL OF ADJACENT PAVING.
- APPLY "CHIPCO RONSTAR G" AT 3 1/2 LBS/1,000 SF IN ALL SHRUBS AND GROUND COVER BEDS. DO NOT APPLY THIS PRE-EMERGENT CHEMICAL ON LEAVES.
- APPLY ANTI-DESSICANT USING POWDER SPRAY TO PROVIDE AN ADEQUATE FILM OVER TRUNKS, BRANCHES, STEMS AND FOLIAGE. IF TREES OR SHRUBS ARE MOVED IN FULL LEAF, SPRAY ANTI-DESSICANT AT NURSERY BEFORE MOVING AND AGAIN AFTER PLANTING PER MANUFACTURER'S RECOMMENDATIONS.
- FERTILIZE TREES WITH 10-10-10 AT 2 LBS. PER TREE. FERTILIZE SHRUBS AND GROUND COVERS WITH 8-8-8 AT 10 LBS. PER 1,000 SF.
- CONTRACTORS SHALL INFORM LANDSCAPE ARCHITECT OF PLANTING TIMES AT LEAST TWO (2) WEEKS PRIOR TO PLANTING. LANDSCAPE ARCHITECT MUST REVIEW AND APPROVE CONTRACTOR'S PROPOSED PLANTING LOCATIONS AND ADJUST IF NECESSARY BEFORE PLANTING. ALL GROUND COVERS AND PERENNIALS ARE TO BE LAID OUT FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO PLANTING.
- LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL NOT MEETING SPECIFICATIONS FOR SIZE, FORM AND QUALITY.
- WARRANTY, FOR A PERIOD OF ONE YEAR FOLLOWING DATE OF SUBSTANTIAL COMPLETION, ALL TREES, SHRUBS, GROUND COVERS AND GRASSES AGAINST ANY DEFECTS (INCLUDING DEATH AND UNSATISFACTORY GROWTH) AS DETERMINED BY LANDSCAPE ARCHITECT.
- ALL EXISTING LANDSCAPE THAT IS TO REMAIN IN OR ADJACENT TO EXTENTS OF CONSTRUCTION SHALL BE PROTECTED DURING CONSTRUCTION. IF EXISTING IRRIGATION SYSTEM IS DISRUPTED DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE IRRIGATION FOR SAID LANDSCAPING, BOTH DURING AND AFTER COMPLETION OF CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- AT ALL DRIVES AND SIDEWALKS, SEPARATING LANDSCAPE ISLANDS, PROVIDE TWO (2) 4" PVC SLEEVES BEYOND EDGE OF PAVING OR CURB. SLEEVES ARE TO BE CLEARLY MARKED AND FLAGGED. LOCATE SLEEVES 18" TO 24" BELOW GRADE. PROVIDE PROPOSED CONDUIT LAYOUT AS PART OF THE IRRIGATION SUBMITTAL. COORDINATE CROSSING UTILITIES BEFORE LOCATING.
- REFERENCE "W" SERIES DRAWINGS FOR ADDITIONAL SITE SIGNAGE LOCATIONS AND INFORMATION.
- MANUFACTURER'S TRADE NAMES AND NUMBERS USED HEREIN ARE ONLY TO IDENTIFY COLORS, FINISHES, TEXTURES AND PATTERNS AS THE BASIS OF THE DESIGN. PRODUCTS OF AUTHORIZED EQUAL MANUFACTURER'S EQUIVALENT TO COLORS, FINISHES, TEXTURES AND PATTERNS OF MANUFACTURERS LISTED THAT MEET REQUIREMENTS OF TECHNICAL SPECIFICATIONS IN EVERY RESPECT MAY BE ACCEPTABLE AT THE CONTRACTING OFFICER'S DISCRETION WITH SUBMITTAL OF A COMPLETED SUBSTITUTION REQUEST CONTAINING ALL PRODUCT DATA, TESTING AND ACTUAL SAMPLES AND UPON APPROVAL IN WRITING BY CONTRACTING OFFICER.
- AT ALL ROOF DRAIN LEADERS TERMINATING AT A LANDSCAPE AREA, PROVIDE A 6" PRECAST CONCRETE SPLASHBLOCK. AT ALL ROOF DRAIN LEADERS TERMINATING AT WALKWAY PAVING, PROVIDE A CONCRETE TRENCH WITH HEAVY-DUTY, GALVANIZED STEEL COVER, PERPENDICULAR ACROSS WALKWAY, MEETING ACCESSIBILITY STANDARDS.
- LANDSCAPE REDUCTION ALTERNATE SHALL INCLUDE: AT ALL PROPOSED PLANTING BEDS REMOVE ALL MULCH, WEED BARRIER, SHRUBS, PERENNIALS, TREES, EDGING AND DRIP IRRIGATION; AND PROVIDE GRASS SEED, SPRAY IRRIGATION, RE: CIVIL FOR REDUCED SIDEWALK SCOPE.



ADDENDUM #1 FOR CONSTRUCTION

Grand Junction VA Medical Center  
2121 North Avenue  
Grand Junction, CO 81501

MEP: APOGEE Consulting Group, PA  
ARCHITECTURE: CooverClark  
TRAFFIC/STRUCTURE: AMERICAN STRUCTUREPOINT INC.

PROJECT LEADER/ARCHITECT:  
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SUSTAINABLE ARCHITECTURE + ENGINEERING

Drawing Title ENLARGED LANDSCAPE PLAN	Project Title PARKING STRUCTURE	Project Number 12.1042 Building Number Bldg - 39	OFFICE OF FACILITIES MANAGEMENT
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA	Drawing Number L-102	VA Project Number 575-206
	Date 3/10/2014	Checked By: VR	Drawn By: JNK



## NON-COATED REINFORCING BAR DEVELOPMENT AND SPLICE LENGTHS

f'c = 4000 PSI					f'c = 5000 PSI					f'c = 6000 PSI					ALL CONCRETE STRENGTHS				
BAR SIZE	Ld	Ldt	Lt	Llt	BAR SIZE	Ld	Ldt	Lt	Llt	BAR SIZE	Ld	Ldt	Lt	Llt	BAR SIZE	Lb	Lc	Lcs	
#3	15	20	20	26	#3	13	17	17	22	#3	12	16	16	21	#3	9	12	12	
#4	19	25	25	33	#4	17	23	23	29	#4	16	21	21	28	#4	11	13	12	
#5	24	32	32	41	#5	22	29	29	38	#5	20	26	26	34	#5	14	16	15	
#6	29	38	38	50	#6	26	34	34	44	#6	24	32	32	41	#6	17	19	17	
#7	42	55	55	71	#7	38	50	50	65	#7	34	45	45	58	#7	20	22	20	
#8	48	63	63	82	#8	43	56	56	73	#8	39	51	51	66	#8	22	25	23	
#9	54	71	71	92	#9	48	63	63	82	#9	44	58	58	75	#9	25	29	26	
#10	60	78	78	102	#10	54	71	71	92	#10	49	64	64	83	#10	28	32	29	
#11	66	86	86	112	#11	59	77	77	100	#11	54	71	71	92	#11	31	35	31	

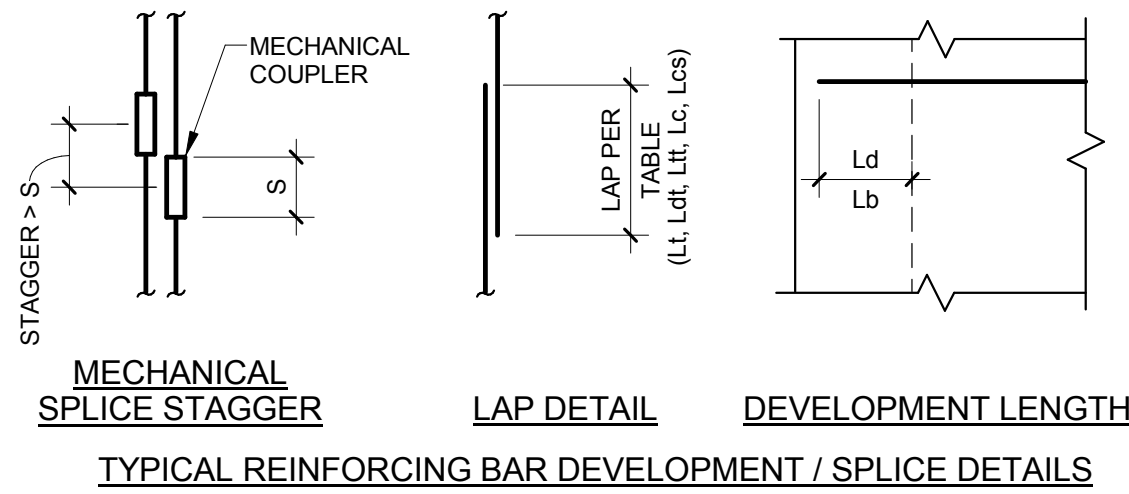
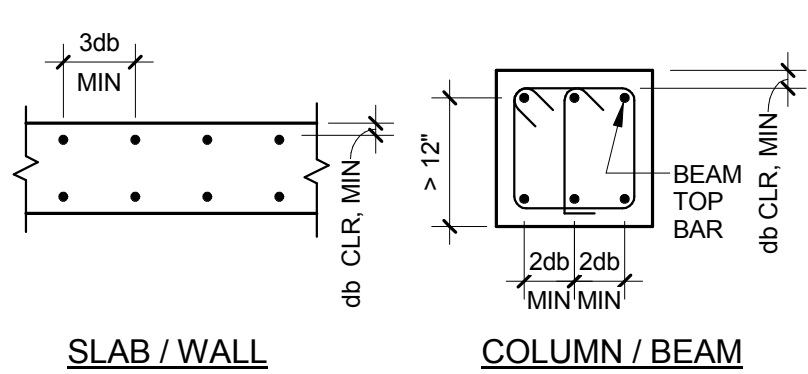
## EPOXY COATED REINFORCING BAR DEVELOPMENT AND SPLICE LENGTHS

f'c = 4000 PSI					f'c = 5000 PSI					f'c = 6000 PSI					ALL CONCRETE STRENGTHS				
BAR SIZE	Ld	Ldt	Lt	Llt	BAR SIZE	Ld	Ldt	Lt	Llt	BAR SIZE	Ld	Ldt	Lt	Llt	BAR SIZE	Lb	Lc	Lcs	
#3	22	29	29	38	#3	20	26	26	34	#3	18	24	24	31	#3	9	12	12	
#4	29	38	38	50	#4	26	34	34	44	#4	24	32	32	41	#4	11	13	12	
#5	36	47	47	61	#5	32	42	42	55	#5	30	39	39	51	#5	14	16	15	
#6	43	56	56	73	#6	39	51	51	66	#6	35	46	46	60	#6	17	19	17	
#7	63	82	82	107	#7	56	73	73	95	#7	51	67	67	87	#7	20	22	20	
#8	72	94	94	122	#8	64	84	84	109	#8	59	77	77	100	#8	22	25	23	
#9	81	106	106	137	#9	72	94	94	122	#9	66	86	86	112	#9	25	29	26	
#10	89	116	116	151	#10	80	104	104	136	#10	73	95	95	124	#10	28	32	29	
#11	98	128	128	166	#11	88	115	115	149	#11	80	104	104	136	#11	31	35	31	

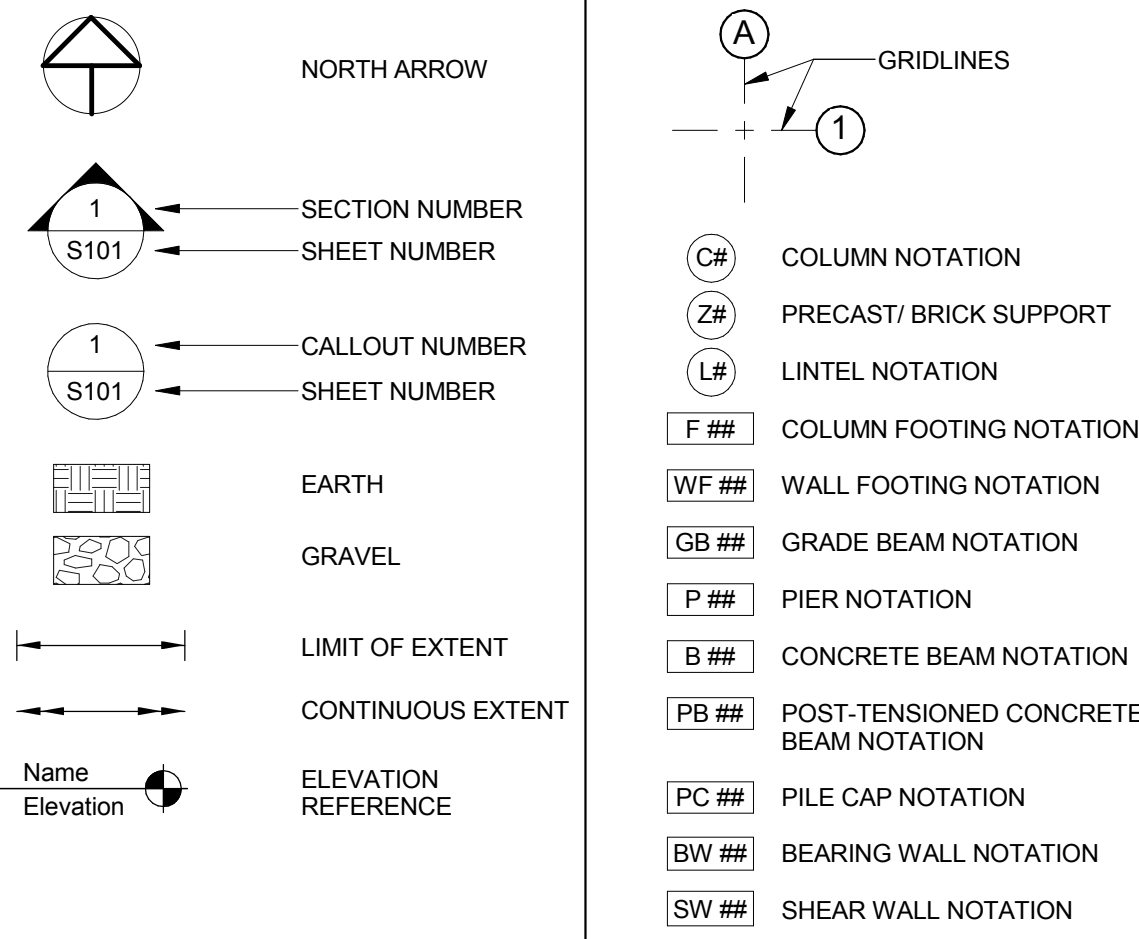
## NOTES:

- db = NOMINAL BAR DIAMETER  
Ld = TENSION DEVELOPMENT LENGTH  
Ldt = DEVELOPMENT LENGTH OF TOP BARS IN TENSION  
Lt = TENSION LAP SPLICE LENGTH  
Llt = TENSION LAP SPLICE LENGTH OF TOP BARS  
Lb = COMPRESSION DEVELOPMENT LENGTH  
Lc = TIED COLUMN LAP SPLICE IN COMPRESSION  
Lcs = SPIRAL COLUMN LAP SPLICE IN COMPRESSION
- REBAR DEVELOPMENT/SPLICE LENGTHS ARE BASED ON ACI 318, REINFORCEMENT YIELD STRENGTH,  $F_y = 60$  KSI
- "TOP BARS" = HORIZONTAL BEAM REINFORCING WITH MORE THAN 12" CAST BELOW
- ALL SPLICES SHALL BE TENSION SPLICES, UNO.

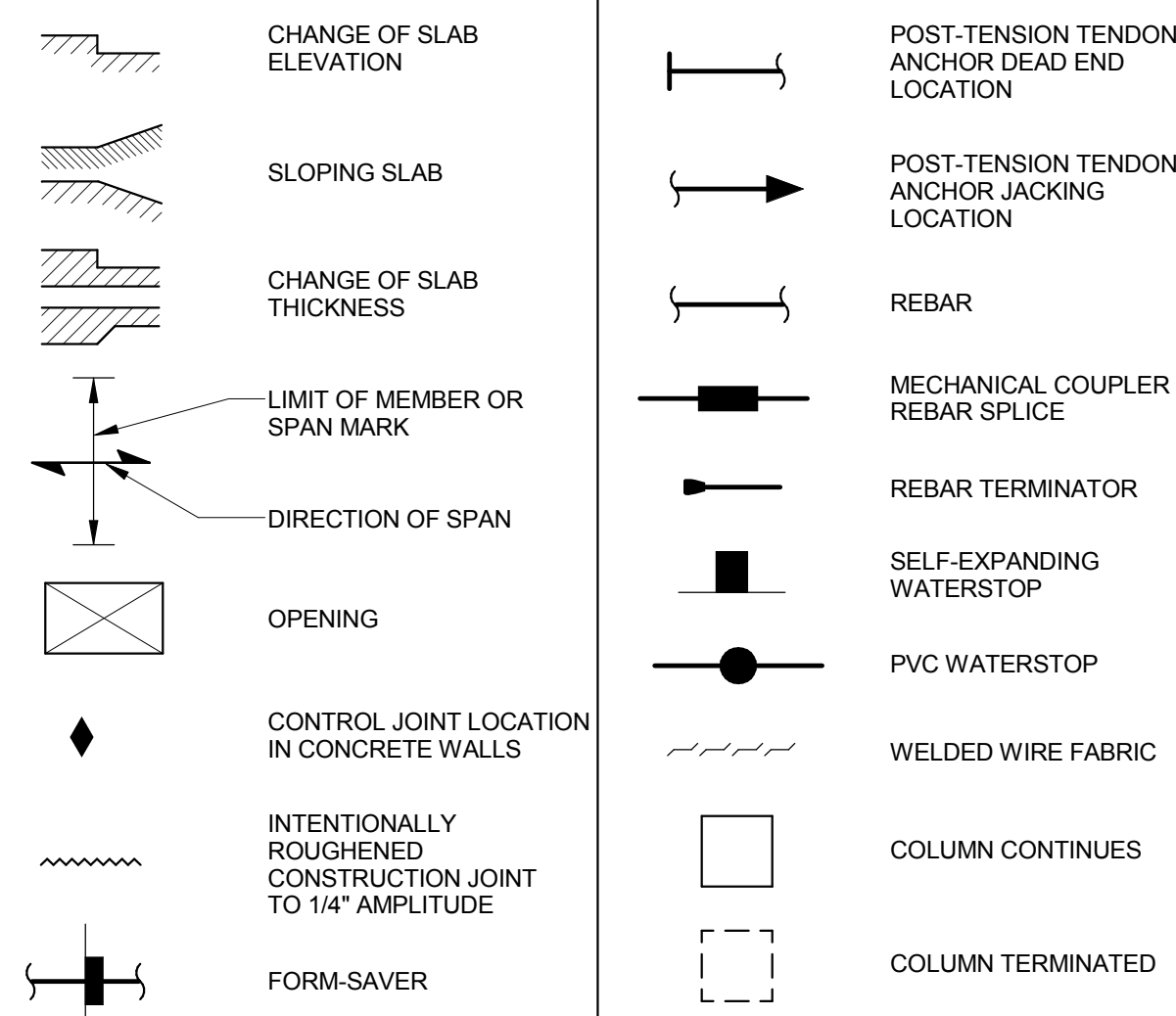
TABLE VALUES SHALL BE MULTIPLIED BY 1.5 IF THE FOLLOWING CRITERIA ARE NOT MET:



## MISCELLANEOUS SYMBOLS



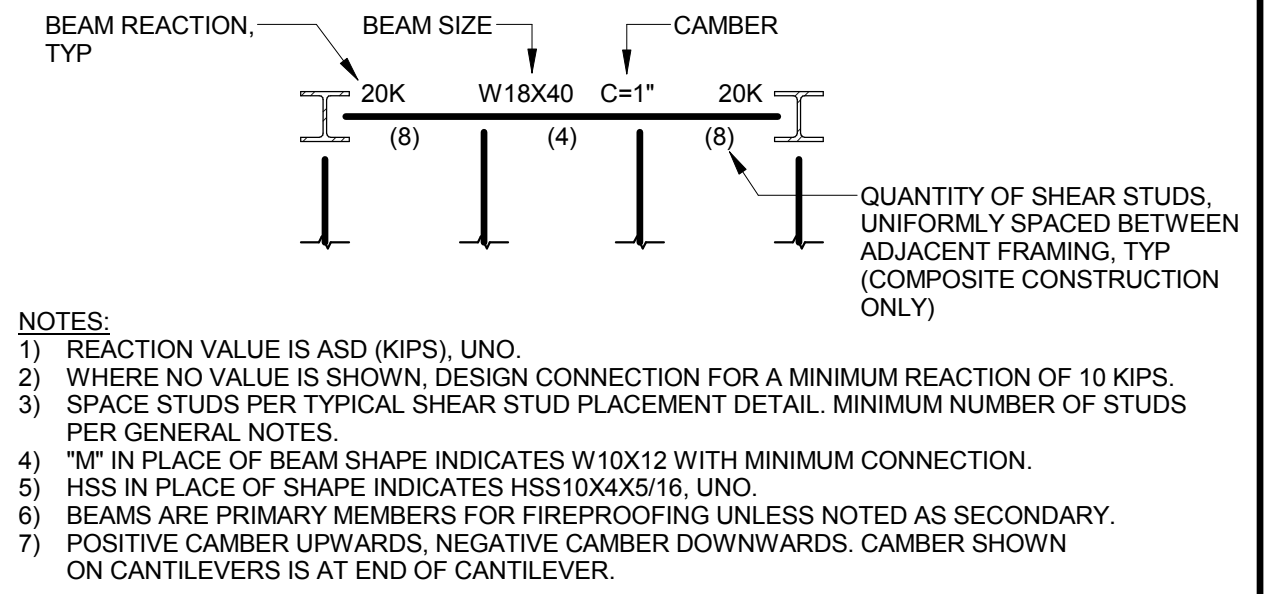
## CONCRETE SYMBOLS



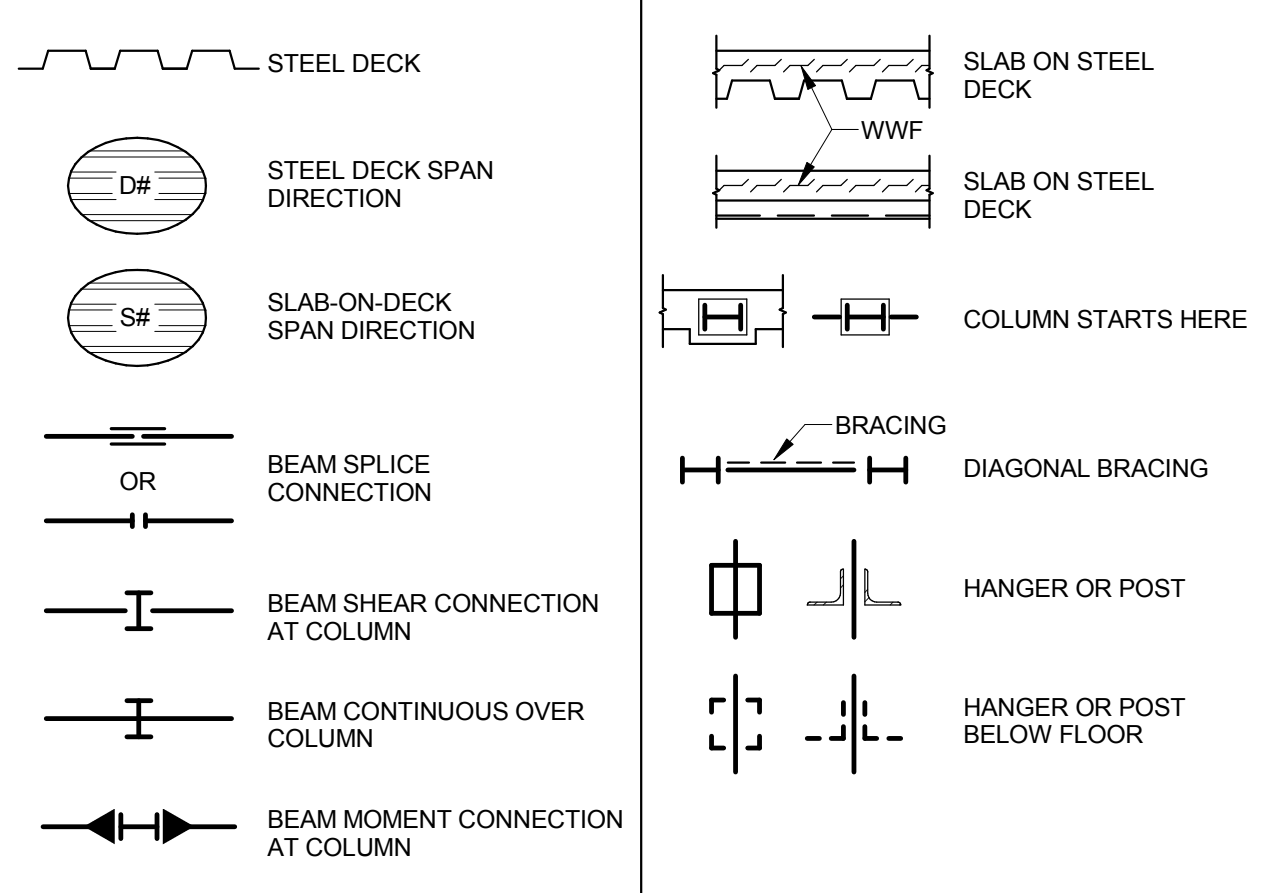
## STRUCTURAL DRAWINGS ABBREVIATIONS

& A/E ACI ADJ AGGR AISC ALT ANSI APA APPROX AR ARCH ASTM AWS B/ BAL BD BLDG BLK BLKG BM BOT BRG BRKT BTWN BU C CANT CC CF CG CIP CJ CL CLR CMU COL CONC CONN CONST CONT CONTR CTR CTRD CU FT CU IN CYD DBA DBL DEG DEMO DEPT DET DIA DIAG DIAPH DIM DN DO DIP DWG DWL EA EF EJ EL, ELEV ELEC ENCL ENGR EOD EQJ EQJ EQS EQ EQPT ES EW EX EXP EXT FD FDN FIN FLG FLR FS FT FTG FTGD FV GA GALV GB GL GRND GT HAS HORIZ HP HSS HT HVAC ID IF IN INCL INFO INSUL INT JBRG	AND ARCHITECT/ENGINEER AMERICAN CONCRETE INSTITUTE ADJACENT AGGREGATE AMERICAN INSTITUTE OF STEEL CONSTRUCTION ALTERNATE AMERICAN NATIONAL STANDARDS INSTITUTE AMERICAN PLYWOOD ASSOCIATION APPROXIMATE ANCHOR ROD ARCHITECTURAL AMERICAN SOCIETY FOR TESTING AND MATERIALS AMERICAN WELDING SOCIETY BOTTOM OF BALANCE BOARD BUILDING BLOCK BLOCKING BEAM BOTTOM BEARING BRACKET BETWEEN BUILT UP STANDARD CHANNEL CANTILEVER CENTERLINE COLD FORMED CENTER OF GRAVITY CAST-IN-PLACE CONTROL JOINT OR CONSTRUCTION JOINT COMPLETE JOINT PENETRATION CENTERLINE CLEARANCE, CLEAR CONCRETE MASONRY UNIT CONCRETE CONNECTION CONSTRUCTION CONTINUOUS CONTRACTOR CENTER CENTERED CUBIC FEET CUBIC INCH CUBIC YARD DEFORMED BAR ANCHOR DOUBLE DEGREE DEMOLITION, DEMOLISH DEPARTMENT DETAIL DIAMETER DIAGONAL DIAPHRAGM DIMENSION DOWN DITTO DEEP DRAWING DOWELS EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRICAL ENCLOSURE ENGINEER EDGE OF DECK EDGE OF JOIST EDGE OF SLAB EQUAL EQUIPMENT EACH SIDE EACH WAY EXISTING EXPANSION EXTERIOR FLOOR DRAIN FOUNDATION FINISH FLANGE FLOOR FAR SIDE FEET FOOTING FOOTING DRAIN FIELD VERIFY GAUGE GALVANIZED GRADE BEAM GLUED LAMINATED TIMBER (GLULAM) GROUND GIRDER TRUSS HEADED ANCHOR STUD HORIZONTAL HIGH POINT HOLLOW STRUCTURAL SECTION HIP TRUSS HEATING, VENTILATION, AIR CONDITIONING INSIDE DIAMETER INSIDE FACE INCH INCLUDE INFORMATION INSULATION INTERIOR JOIST BEARING	JST JOINT KNBRACE KIP, K KNOCK-OUT KSI LAB LABORATORY LB POUND LINEAL FOOT LINEAL, LINEAR LONG LEG HORIZONTAL LLV LONG LEG VERTICAL LONGIT LONGITUDINAL LP LOW POINT LSL LAMINATED STRAND LUMBER LSLT LONG SLOTTED HOLE LTWT LIGHT WEIGHT LVL LAMINATED VENEER LUMBER MAS MASONRY MATL MATERIAL MAX MAXIMUM MB MACHINE BOLT MC MISCELLANEOUS CHANNEL MECH MECHANICAL MEMB MEMBRANE MEP MECHANICAL/ELECTRICAL/PLUMBING MFR MANUFACTURER MIN MINIMUM MISC MISCELLANEOUS MO MASONRY OPENING MULT MULTIPLE N/A NOT APPLICABLE NO NUMBER NOM NOMINAL NS NEAR SCALE NTS NOT TO SCALE OC ON CENTER OD OUTSIDE DIAMETER OF OUTSIDE FACE OFD OVERFLOW DRAIN OH OVERHEAD OPNG OPENING OPPOSITE OPPHD OPPOSITE HAND ORIG ORIGINAL OVS OVERSIZED HOLE OMJ PREMANUFACTURED OPEN WEB JOIST PC PRECAST CONCRETE PERM PERIMETER PERM PERMANENT PERP PERPENDICULAR PJP PARTIAL JOINT PENETRATION PL PLATE PLF POUNDS PER LINEAL FOOT PLYWD PLYWOOD PREFAB PREFABRICATED PRELIM PRELIMINARY PREP PREPARATION, PREPARE PROJ PROJECTION PS PRESTRESSED PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PSL PARALLEL STRAND LUMBER PT POST-TENSIONED R RADIUS RD ROOF DRAIN REF REFERENCE REINF REINFORCEMENT, REINFORCE REQD REQUIRED RO ROUGH OPENING RTU ROOFTOP MECHANICAL UNIT S SLOPE SCHD SCHEDULE SECT SECTION SF SQUARE FEET SHT SHEET SIM SIMILAR SOG SLAB ON GRADE SPA SPACES, SPACE SPECS SPECIFICATIONS SQ SQUARE SS STAINLESS STEEL SSLT SHORT SLOTTED HOLE STD STANDARD STIFF STIFFENER STL STEEL STRUC STRUCTURAL SYM SYMMETRICAL T & B TOP AND BOTTOM T/ TOP OF TIGB TOP OF GRADE BEAM TBS MECHANICAL TENSION BUTT SPLICE TEMP TEMPERATURE THRU THROUGH TJI PREFABRICATED WOOD I-JOIST TRANS TRANSVERSE TYP TYPICAL UL UNDERWRITERS' LABORATORY INC. UNO UNLESS NOTED OTHERWISE UT ULTRA-SONIC TEST VERT VERTICAL W WIDE FLANGE W/ WITH W/O WITHOUT WD WOOD WH WEEP HOLE WP WORK POINT WT WEIGHT, STRUCTURAL T WWF WELDED WIRE FABRIC XS EXTRA STRONG (PIPE) XXS DOUBLE EXTRA STRONG (PIPE)
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## BEAM LEGEND



## STEEL SYMBOLS



## CONNECTORS

CONNECTOR	SECTION	END/ALT VIEW
CAST-IN ANCHOR ROD		
POST-INSTALLED MECHANICAL ANCHOR		
POST INSTALLED ADHESIVE ANCHOR		
HEADED STUD		
BOLT		

## STRUCTURAL INDEX

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S-201	LEVEL 1 - SLAB ON GRADE
S-202	LEVEL 2 - FRAMING PLAN
S-202A	LEVEL 2 - PT. REINFORCING PLAN
S-210	ENLARGED PLANS
S-211	ENLARGED PLANS
S-212	ENLARGED PLANS / ELEVATIONS
S-301	BUILDING SECTIONS AND ELEVATIONS
S-401	TYPICAL CONCRETE/FDN DETAILS
S-402	FOUNDATION SECTIONS
S-403	FOUNDATION SECTIONS
S-405	PILE / PILE CAP DETAILS / SCHEDULES
S-411	TYPICAL COLUMN AND WALL DETAILS / SECTIONS
S-412	TYPICAL COLUMN DETAILS
S-421	TYPICAL POST-TENSIONED SLAB DETAILS
S-431	TYPICAL POST-TENSIONED BEAM DETAILS
S-432	POST TENSIONED BEAM SCHEDULE
S-433	MILD REINFORCED BEAM SCHEDULE
S-441	CONCRETE SECTIONS
S-501	TYPICAL STEEL SECTIONS AND DETAILS
S-502	TYPICAL CMU SECTIONS AND DETAILS
S-503	TYPICAL CMU SECTIONS AND DETAILS
S-504	STEEL SECTIONS AND DETAILS
S-505	STEEL SECTIONS AND DETAILS
S-506	MISCELLANEOUS DETAILS
S-203	NOT USED
S-203A	NOT USED
S-204	NOT USED
S-204A	NOT USED

## ADDENDUM #1 FOR CONSTRUCTION

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GENERAL

THE STRUCTURE HAS BEEN DESIGNED FOR THE IN-SERVICE LOADS ONLY. THE METHODS, MEANS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, TIEDOWNS, ETC.

THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS.

THE GENERAL NOTES ON THE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE FULL WRITTEN MATERIAL SPECIFICATIONS (IF ANY) FOR THE PROJECT. IF A DISCREPANCY OCCURS BETWEEN THE NOTES AND THE FULL SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

NO PENETRATIONS THROUGH STRUCTURAL ELEMENTS, OTHER THAN THOSE SHOWN ON THE DRAWINGS, SHALL BE MADE WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

CONCRETE MIX DESIGN SUBMITTAL

THE CONTRACTOR SHALL SUBMIT FOR THE REVIEW OF THE STRUCTURAL ENGINEER A MIX DESIGN FOR EACH PROPOSED CLASS OF CONCRETE. EACH MIX DESIGN SHALL BE IDENTIFIED BY A MIX NUMBER OR OTHER UNIQUE IDENTIFICATION. THE CONTRACTOR SHALL NOT VARY FROM THE MIX DESIGNS NOR USE ANY CONCRETE OTHER THAN THE APPROVED MIX DESIGNS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. MIX DESIGN SUBMITTALS SHALL INCLUDE THE FOLLOWING INFORMATION:

- MIX DESIGN NUMBER OR UNIQUE IDENTIFICATION AND INTENDED LOCATION OF PLACEMENT
- CEMENT TYPE, PROPORTION AND NAME OF MANUFACTURER
- FLY-ASH PROPORTION (WHEN USED), LABORATORY ANALYSIS CERTIFICATION
- NAME AND LOCATION OF SUPPLIER
- COURSE AGGREGATE PROPORTION, GRADATION REPORT, NAME AND LOCATION OF SUPPLIER
- FINE AGGREGATE PROPORTION, GRADATION REPORT, NAME AND LOCATION OF SUPPLIER
- MIXING WATER PROPORTION AND SOURCE
- AD MIXTURE DOSAGES, PRODUCT NAME(S) AND MANUFACTURER NAME(S)
- FIBER REINFORCEMENT (WHEN USED), PRODUCT NAME AND MANUFACTURER NAME
- DESIGN 28-DAY COMPRESSIVE STRENGTH (FC)
- DESIGN SLUMP RANGE
- DESIGN AIR ENTRAINMENT (FOR CONCRETE REQUIRING ENTRAINMENT AIR)
- STATISTICAL ANALYSIS OF LABORATORY STRENGTH TEST DATA IN ACCORDANCE WITH "STANDARD DEVIATION" DETERMINATION OUTLINED IN ACI 318.

SHOP DRAWING SUBMITTALS

THE CONTRACTOR SHALL PREPARE DETAILED SHOP DRAWINGS TO ENABLE HIM TO FABRICATE, ERECT AND CONSTRUCT ALL PARTS OF THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THESE SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS, ACCURACY AND FIT OF WORK.

ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER. DRAWINGS SUBMITTED WITHOUT CONTRACTOR'S REVIEW WILL BE RETURNED UNCHECKED.

SUBMIT HARD COPIES OR ELECTRONIC VERSIONS OF SHOP DRAWINGS, FOR HARD COPY OPTION, SUBMIT A MINIMUM OF TWO COPIES OF SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW (ONE COPY SHALL BE RETAINED BY THE STRUCTURAL ENGINEER). FOR ELECTRONIC OPTION, SUBMIT SHOP DRAWINGS IN ADOBE PDF FORMAT.

SUBMIT SHOP DRAWINGS FOR EACH OF THE FOLLOWING ITEMS:

- CONCRETE REINFORCEMENT
- CONCRETE MASONRY REINFORCEMENT
- STRUCTURAL STEEL (INCLUDING DESIGN CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS CONSTRUCTED FOR ALL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS)
- STEEL DECK
- PRECAST CONCRETE COMPONENTS (PRECAST LINTELS, ARCHITECTURAL PRECAST)
- GLASS CURTAIN WALL SYSTEM (INCLUDING DESIGN CALCULATIONS AND CONNECTION DETAILS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS CONSTRUCTED)
- STEEL PILES
- POST-TENSIONING
- METAL MESH SYSTEM AND BACKUP STEEL (INCLUDING DESIGN CALCULATIONS AND CONNECTION DETAILS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS CONSTRUCTED)
- SLAB COORDINATION DRAWINGS SHOWING OPENINGS, EMBEDS, PT ANCHORAGE, ETC.

PRODUCT DATA SUBMITTALS

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, PRODUCT DATA FOR THE SPECIFIC ITEMS LISTED BELOW. CONTRACTOR SHALL NOT USE PRODUCTS OTHER THAN THOSE SUBMITTED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

MANUFACTURER'S TRADE NAMES AND NUMBERS USED HEREIN ARE ONLY TO IDENTIFY COLORS, FINISHES, TEXTURES, AND PATTERNS AS A BASIS OF DESIGN. PRODUCTS OF AUTHORIZED EQUAL MANUFACTURERS EQUIVALENT TO COLORS, FINISHES, TEXTURES, AND PATTERNS OF MANUFACTURERS LISTED THAT MEET REQUIREMENTS OF TECHNICAL SPECIFICATIONS IN EVERY RESPECT MAY BE ACCEPTABLE WITH SUBMITTAL OF A COMPLETED SUBSTITUTION REQUEST CONTAINING ALL PRODUCT DATA, TESTING AND ACTUAL SAMPLES, AND UPON APPROVAL IN WRITING BY CONTRACTING OFFICER.

SUBMIT HARD COPIES OR ELECTRONIC VERSIONS OF PRODUCT DATA, FOR HARD COPY OPTION, SUBMIT A MINIMUM OF TWO COPIES OF PRODUCT DATA TO THE STRUCTURAL ENGINEER FOR REVIEW (ONE COPY SHALL BE RETAINED BY THE STRUCTURAL ENGINEER). FOR ELECTRONIC OPTION, SUBMIT PRODUCT DATA IN ADOBE PDF FORMAT.

- FIBER REINFORCEMENT FOR CONCRETE
- CONCRETE CURING COMPOUND
- CONCRETE JOINT SEALANT
- WATER STOPS
- MASONRY JOINT REINFORCEMENT
- EXPANSION ANCHORS
- ADHESIVE ANCHORS
- NON-SHRINK GROUT

FOUNDATIONS

FOUNDATION EXCAVATIONS AND SOIL RELATED WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT NUMBER AD135005 PREPARED BY TERRACON DATED APRIL 4, 2013.

FOUNDATIONS HAVE BEEN DESIGNED BASED ON ASSUMED ALLOWABLE CAPACITIES INDICATED BELOW. CONTRACTOR SHALL ENGAGE A LICENSED GEOTECHNICAL ENGINEER TO REVIEW THE SOIL CONDITIONS AT THE SITE AS NECESSARY TO CONFIRM THE ALLOWABLE CAPACITIES PRIOR TO PLACEMENT OF THE FOUNDATIONS. CONFIRMATION OF THE ACCEPTABILITY OF THE SOILS SHALL BE REPORTED IN WRITING TO THE STRUCTURAL ENGINEER.

IF ACTUAL ALLOWABLE CAPACITIES ARE FOUND TO BE LESS THAN THE ASSUMED VALUES, THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY AND SHALL NOT PROCEED WITH FOUNDATION CONSTRUCTION WITHOUT REVIEW BY THE STRUCTURAL ENGINEER.

DESIGN ALLOWABLE PILE LOADS:

COMPRESSION:	100 KIPS
TENSION:	23 KIPS
LATERAL:	10 KIPS

FOR PURPOSES OF BIDDING, ESTIMATED PILE TIP ELEVATION IS 4568.00 FEET. ACTUAL PILE TIP ELEVATION TO BE DETERMINED BY SPECIFIED TESTING PROGRAM AND DRIVING CRITERIA. SEE SPECIFICATIONS.

THE CONTRACTOR MAY PROPOSE AN ALTERNATE EQUIVALENT DRIVE PILE SYSTEM FOR REVIEW AND APPROVAL BY THE ENGINEER OR RECORD. NO DRIVEN PILE SYSTEM OTHER THAN THOSE SPECIFIED SHALL BE USED WITHOUT REVIEW AND APPROVAL BY THE ENGINEER OF RECORD.

FOUNDATIONS AND SOILS RELATED WORK SHALL BE INSPECTED BY A LICENSED GEOTECHNICAL ENGINEER. WRITTEN FIELD REPORTS SHALL BE FORWARDED TO THE STRUCTURAL ENGINEER AS SOON AS THEY BECOME AVAILABLE.

FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION, WHICH DIFFER FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT, SHALL BE REPORTED TO THE STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.

EXCAVATIONS FOR SPREAD FOOTINGS, COMBINED FOOTINGS, CONTINUOUS FOOTINGS, GRADE BEAMS, AND MAT FOUNDATIONS SHALL BE CLEANED AND HAND TAMPED TO UNIFORM SURFACE AND SHALL BE PROTECTED AND MAINTAINED UNIFORM UNTIL CONCRETE IS PLACED.

DRIVEN PILES

SEE SPECIFICATION SECTION 316200 - DRIVEN PILES FOR MORE INFORMATION

BELOW-GRADE WALLS

DO NOT BACKFILL AGAINST BELOW-GRADE CONCRETE (OR MASONRY) WALLS UNTIL THE CONCRETE (OR MASONRY ASSEMBLAGE) HAS REACHED ITS 28-DAY COMPRESSIVE STRENGTH.

WHERE BACKFILL IS REQUIRED ON BOTH SIDES OF BELOW-GRADE WALLS, BACKFILL EVENLY ON EACH SIDE OF EACH WALL TO PREVENT UNBALANCED SOIL LOADS AGAINST THE WALL.

UNLESS NOTED OTHERWISE, DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL THE BASEMENT AND GROUND FLOOR SLABS HAVE BEEN COMPLETELY INSTALLED AND REACHED THEIR 28-DAY COMPRESSIVE STRENGTH AND ALL FLOOR FRAMING AND SLAB CONNECTIONS TO THE BASEMENT WALLS HAVE BEEN COMPLETELY INSTALLED.

WHERE BASEMENT WALLS OCCUR, BACKFILL EVENLY ON ALL SIDES OF THE BUILDING TO PREVENT UNBALANCED SOIL LOADS AGAINST THE BASEMENT STRUCTURE. UNLESS NOTED OTHERWISE.

CONCRETE

REINFORCED CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318) AND COMMENTARY (ACI 318R).

MIXING, TRANSPORTING, AND PLACING OF CONCRETE SHALL CONFORM TO THE LATEST EDITION OF THE SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301). READY-MIXED CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C94. IN CASE OF A DISCREPANCY, THE PLANS AND SPECIFICATIONS SHALL GOVERN.

CEMENT SHALL CONFORM TO ASTM C150, TYPE I, UNO.

FLY ASH SHALL CONFORM TO ASTM C618, CLASS C OR F. THE RATIO OF THE AMOUNT (BY WEIGHT) OF FLY ASH TO TOTAL CEMENTITIOUS MATERIALS IN THE MIX SHALL NOT EXCEED 25 PERCENT.

NORMAL WEIGHT AGGREGATES SHALL CONFORM TO ASTM C33.

WATER-REDUCING ADMIXTURES SHALL CONFORM TO ASTM C494.

AIR-ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C260 AND SHALL BE CERTIFIED BY THE MANUFACTURER TO BE COMPATIBLE WITH OTHER ADMIXTURES. CALCIUM CHLORIDE ADMIXTURES OR ADMIXTURES CONTAINING MORE THAN 0.1 PERCENT CHLORIDE IONS SHALL NOT BE USED.

IN COLD WEATHER CONDITIONS, MIXING, PLACING, FINISHING, CURING AND PROTECTION OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 306R, COLD WEATHER CONCRETING.

IN HOT WEATHER CONDITIONS, MIXING, PLACING, FINISHING, CURING AND PROTECTION OF CONCRETE SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 305R, HOT WEATHER CONCRETING.

USE OF CONSTRUCTION JOINTS AT LOCATIONS OTHER THAN THOSE INDICATED ON THE DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.

SLUMP FOR PUMPED CONCRETE SHALL BE MEASURED AT POINT OF DISCHARGE.

NORMAL WEIGHT CONCRETE SHALL BE USED IN THE FOLLOWING AREAS AND SHALL HAVE THE PROPERTIES AS SHOWN BELOW:

FOUNDATIONS, PILE CAPS, AND MATS

- COMPRESSIVE STRENGTH (28 DAYS): 4000 PSI
- MAXIMUM SLUMP: 4 INCHES
- MINIMUM CEMENTITIOUS MATERIALS CONTENT: 470 LB./CU. YD. (USE TYPE II SULFATE RESISTANT CEMENT)
- MAXIMUM SLUMP FOR CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE: 8 INCHES (AFTER ADMIXTURE IS ADDED TO CONCRETE WITH 2 TO 4 INCH SLUMP)
- MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.48
- MAXIMUM COARSE AGGREGATE SIZE: 1 1/2 INCHES
- AIR CONTENT: N/A

FOUNDATION WALLS

- COMPRESSIVE STRENGTH (28 DAYS): 4000 PSI
- MAXIMUM SLUMP: 4 INCHES
- MINIMUM CEMENTITIOUS MATERIALS CONTENT: 470 LB./CU. YD. (USE TYPE II SULFATE RESISTANT CEMENT)
- MAXIMUM SLUMP FOR CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE: 8 INCHES (AFTER ADMIXTURE IS ADDED TO CONCRETE WITH 2 TO 4 INCH SLUMP)
- MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.48
- MAXIMUM COARSE AGGREGATE SIZE: 1 INCH
- AIR CONTENT: N/A

RETAINING WALLS AND CURBS/SIDEWALKS/SLABS EXPOSED TO DE-ICERS

- COMPRESSIVE STRENGTH (28 DAYS): 4000 PSI
- MAXIMUM SLUMP: 4 INCHES
- MINIMUM CEMENTITIOUS MATERIALS CONTENT: 517 LB./CU. YD. (USE TYPE II SULFATE RESISTANT CEMENT)
- MAXIMUM SLUMP FOR CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE: 8 INCHES (AFTER ADMIXTURE IS ADDED TO CONCRETE WITH 2 TO 4 INCH SLUMP)
- MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.45
- MAXIMUM COARSE AGGREGATE SIZE: 1 INCH
- AIR CONTENT: 6.0% +/- 1%

SLABS ON GRADE

- COMPRESSIVE STRENGTH (28 DAYS): 4000 PSI
- MAXIMUM SLUMP: 4 INCHES
- MINIMUM CEMENTITIOUS MATERIALS CONTENT: 470 LB./CU. YD. (USE TYPE II SULFATE RESISTANT CEMENT)
- MAXIMUM SLUMP FOR CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE: 8 INCHES (AFTER ADMIXTURE IS ADDED TO CONCRETE WITH 2 TO 4 INCH SLUMP)
- MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.48
- MAXIMUM COARSE AGGREGATE SIZE: 1 INCH
- AIR CONTENT: 6% +/- 1%
- HIGH RANGE WATER REDUCING ADMIXTURE AND FIBER REINFORCING REQUIRED

COLUMNS

- COMPRESSIVE STRENGTH (28 DAYS): 6000 PSI
- MAXIMUM SLUMP: 4 INCHES
- MINIMUM CEMENTITIOUS MATERIALS CONTENT: 661 LB./CU. YD. (USE TYPE II SULFATE RESISTANT CEMENT FOR LEVEL 1, COLUMNS)
- MAXIMUM SLUMP FOR CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE: 8 INCHES (AFTER ADMIXTURE IS ADDED TO CONCRETE WITH 2 TO 4 INCH SLUMP)
- MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.45
- MAXIMUM COARSE AGGREGATE SIZE: 3/4 INCH
- AIR CONTENT: N/A

STRUCTURAL CONCRETE POST TENSIONED BEAMS AND SLAB SYSTEMS

- COMPRESSIVE STRENGTH (28 DAYS): 5000 PSI
- MAXIMUM SLUMP: 4 INCHES
- MINIMUM CEMENTITIOUS MATERIALS CONTENT: 589 LB./CU. YD.
- MAXIMUM SLUMP FOR CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE: 8 INCHES (AFTER ADMIXTURE IS ADDED TO CONCRETE WITH 2 TO 4 INCH SLUMP)
- MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.40
- MAXIMUM COARSE AGGREGATE SIZE: 3/4 INCH
- AIR CONTENT: 6% +/- 1%
- CORROSION INHIBITOR ADMIXTURE REQUIRED - 3 GAL / CUBIC YARD
- MICROSILICA REQUIRED - ADD ALTERNATE OPTION
- HIGH-RANGE WATER REDUCING ADMIXTURE REQUIRED

SLABS ON STEEL DECK

- COMPRESSIVE STRENGTH (28 DAYS): 4000 PSI
- MAXIMUM SLUMP: 4 INCHES
- MINIMUM CEMENTITIOUS MATERIALS CONTENT: 470 LB./CU. YD.
- MAXIMUM SLUMP FOR CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE: 8 INCHES (AFTER ADMIXTURE IS ADDED TO CONCRETE WITH 2 TO 4 INCH SLUMP)
- MAXIMUM WATER/CEMENTITIOUS MATERIALS RATIO: 0.48
- MAXIMUM COARSE AGGREGATE SIZE: 1 INCH
- AIR CONTENT: N/A

POST-TENSIONED CONCRETE

POST-TENSIONING SHOP DRAWINGS, INCLUDING PLANS AND DETAILS, SHALL BE SUBMITTED AND REVIEWED BY THE ARCHITECT/ENGINEER PRIOR TO STARTING FABRICATION.

ALL POST-TENSIONED CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 3000 PSI AT THE TIME OF INITIAL STRESSING. PROVIDE EXTRA TEST CYLINDERS TO SUBSTANTIATE CONCRETE STRENGTH PRIOR TO POST-TENSIONING. AT CONTRACTOR'S OPTION MATURITY METERS MAY BE ALLOWED. SUBMIT PRODUCT DOCUMENTATION FOR REVIEW PRIOR TO CONSTRUCTION.

POST-TENSIONING REINFORCING SHALL BE 1/2 INCH DIAMETER, UNBONDED MONOSTRAND SYSTEM, LOW RELAXATION, 270 KSI HIGH-TENSILE WIRE STRAND CONFORMING TO ASTM A186. 1 1/2 INCHES

STRESS TENDONS AGAINST PLACEMENT OF CONCRETE AS FOLLOWS: STANDARD CONCRETE - WITHIN 72 HOURS OF PLACEMENT WITH MICRO-SILICA - WITHIN 48 HOURS. STRESS TENDONS IN THE FOLLOWING ORDER:

- BEAM AND SLAB
- STRESS 50% OF SLAB TENDONS
- STRESS 100% OF SLAB TEMPERATURE TENDONS
- STRESS 50% OF BEAM TENDONS
- STRESS 50% OF GIRDER TENDONS / WHERE APPLICABLE /
- STRESS REMAINING SLAB TENDONS
- STRESS REMAININGS OF GIRDER TENDONS / WHERE APPLICABLE /

TENDONS THAT DO NOT SPAN THE ENTIRE LENGTH OF THE SLAB MUST BE ANCHORED AT SLAB MID-DEPTH AND SHALL NOT BE STRESSED THROUGH THE TOP OF THE SLAB.

ENCASE POST-TENSIONING TENDONS IN WATERPROOF POLYETHYLENE PLASTIC SHEATHING OF 25 MILS MINIMUM THICKNESS. PROVIDE SUFFICIENT STRENGTH TO PREVENT UNDESIRABLE DAMAGE DURING FABRICATION, TRANSPORTATION, INSTALLATION, PLACEMENT, AND TENSIONING. REPAIR ANY DAMAGED SHEATHING SECTION PER THE POST-TENSIONING INSTALLATION (PTI) RECOMMENDATIONS.

PROVIDE ENCAPSULATED TENDONS AT LOCATIONS EXPOSED TO THE ELEMENTS/WATER.

POST-TENSIONING FORCES SHOWN ON PLANS AND SCHEDULES ARE EFFECTIVE FORCES. THE POST-TENSIONING SUPPLIER SHALL DETERMINE THE NUMBER OF TENDONS BASED ON THESE EFFECTIVE FORCES. INSTALL TENDONS ONLY AFTER THE POST-TENSIONING TENDONS AND TENDONS IN THEIR DESIGNATED POSITIONS AS SHOWN IN THE DRAWINGS WITH CHAIRS, SUPPORT BARS, AND END ANCHORAGES. TENDONS SHALL BE PLACED IN A POSITION WITHIN 1/8 INCH. DO NOT USE TEMPERATURE TENDONS OR MILD REINFORCING FOR SUPPORT OF TENDONS.

CONFORM TO ACI 318 FOR DETAILED DESIGN OF TENDONS AND END ANCHORAGES, AND THE CALCULATION OF LOSSES DUE TO CREEP, SHRINKAGE, STRESS RELAXATION, ANCHORAGE SLIP, AND FRICTION. PLACE CONCRETE ONLY AFTER THE POST-TENSIONING TENDONS AND REINFORCEMENT HAVE BEEN INSPECTED AND APPROVED. CONTINUOUS INSPECTION AND RECORDING OF ELONGATION IS REQUIRED DURING ALL STRESSING OPERATIONS. DO NOT CUT TENDON ENDS UNTIL THE ENTIRE SLAB HAS BEEN SATISFACTORILY STRESSED AND THE ENGINEER HAS GIVEN APPROVAL.

ALL INSERTS, SLEEVES, AND OPENINGS SHALL BE CAST-IN-PLACE. DRILLED AND POWER-DRIVEN FASTENERS ARE PROHIBITED EXCEPT FOR - DRILLED IN ANCHORS WITH 1 INCH MAXIMUM DIAMETER. ALL INSERTS SHALL BE ALLOWED AT THE BOTTOM OF SLAB NEXT TO BEAMS AND EXTENDING ONE QUARTER SPAN, AND AT TOP OF SLAB WITHIN THE MIDDLE THIRD SPAN ONLY.

THE POST-TENSIONED SLABS ARE DESIGNED BASED ON TENDONS BEING CONTINUOUS BETWEEN EDGES OF SLAB AS SHOWN ON THE DRAWINGS. SUBMIT ANY ADDITIONAL INTERMEDIATE STRESSING JOINTS REQUIRED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER OF RECORD BEFORE STARTING CONSTRUCTION. THESE LOCATIONS MAY INCLUDE ADDITIONAL REINFORCING. LOCATE CONSTRUCTION JOINTS IN POST-TENSIONED SLABS AT THE QUARTER POINTS OF THE SLAB SPAN WHERE THE STRANDS ARE AT MID-DEPTH FOR PROPER ANCHORAGE.

SHORING/RE-SHORING

THE SHORING AND RE-SHORING DESIGN FOR CONCRETE FRAME SYSTEMS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND ORDERS SHALL BE ADEQUATE TO CARRY THE TOTAL WEIGHT OF THE SLAB-BEAM-GIRDER SYSTEM AND ANY TEMPORARY CONSTRUCTION LOADS TO BE IMPOSED ON THE STRUCTURAL SYSTEM. SHORING FOR A LEVEL SHALL NOT BE REMOVED UNTIL THE CONCRETE AT THAT LEVEL HAS ATTAINED THE SPECIFIED COMPRESSIVE STRENGTH (FC). REMOVAL OF SHORING AND/OR RESHORING SHALL NOT CAUSE OVERSTRESSING OF ANY STRUCTURAL ELEMENTS.

CONCRETE SLABS ON GRADE

SLABS ON GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION (ACI 302.1R).

PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL THE CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE WATER. DO NOT SPRINKLE FINE CEMENT ON THE SLAB SURFACE.

PROVIDE CURING OF CONCRETE SLABS IMMEDIATELY AFTER FINISHING USING A SPRAYED ON DISPERSING-RESIN LIQUID CURING COMPOUND CONFORMING TO ASTM C209. UNLESS NOTED OTHERWISE, ALL SURFACES OR ABRASIONS TO THE CURING MEMBRANE SHALL BE RECOATED DAILY, OTHER CURING METHODS MAY BE USED WITH APPROVAL BY THE STRUCTURAL ENGINEER.

SLABS ON GRADE SHALL BE PLACED TO ACHIEVE THE FOLLOWING MINIMUM TOLERANCES:

- OVERALL VALUES: FF = +25  
LOCAL VALUES: FF = +20

THE MINIMUM LOCAL AREA SHALL BE ANY BAY DEFINED BY COLUMN LINES.

UNLESS SHOWN OR NOTED OTHERWISE, PROVIDE CONTROL, OR CONSTRUCTION JOINTS IN SLABS ON GRADE AT A MAXIMUM SPACING OF 36 TIMES THE SLAB THICKNESS. PROVIDE JOINTS AT ALL COLUMN LOCATIONS. LOCATE JOINTS TO ELIMINATE RE-ENTRANT CORNERS AND TO CREATE SQUARE OR RECTANGULAR SECTIONS WITH MAXIMUM LONG SIDE TO SHORT SIDE RATIO OF 1.5 TO 1.

CONTROL JOINTS IN SLABS ON GRADE SHALL NOT RECEIVE JOINT FILLER MATERIAL UNLESS NOTED OTHERWISE.

CONCRETE SLABS ON METAL DECK

UNLESS INDICATED OTHERWISE ON THE DRAWINGS, CONCRETE SLABS ON METAL DECK SHALL BE PLACED AS REQUIRED TO MAINTAIN A CONSTANT SLAB THICKNESS.

CONTRACTOR SHALL ALLOW FOR THE DEFLECTION OF THE FLOOR ASSEMBLY DUE TO THE WET WEIGHT OF THE CONCRETE WHEN CALCULATING CONCRETE QUANTITIES AND SHALL INCLUDE THE COST OF ALL REQUIRED SLAB-ON-DECK CONCRETE IN THE BID PRICE.

PRIOR TO PLACEMENT OF CONCRETE SLABS ON METAL DECK, THE CONTRACTOR SHALL CAREFULLY REVIEW THE ELEVATIONS OF THE STRUCTURAL STEEL FRAMING, INCLUDING CAMBERED MEMBERS, FOR CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES (SUCH AS IMPROPER CAMBER, IMPROPER STEEL ELEVATIONS, ETC.) IMMEDIATELY AND SHALL NOT BEGIN CONCRETE PLACEMENT WITHOUT PRIOR REVIEW BY THE STRUCTURAL ENGINEER.

ACTUAL CONCRETE SLAB THICKNESS SHALL NOT BE LESS THAN THE INDICATED NOMINAL THICKNESS AT ANY LOCATION. IF ANY CONDITION IS DISCOVERED THAT WOULD PREVENT PLACEMENT OF CONCRETE TO THE NOMINAL THICKNESS, CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY AND SHALL NOT PROCEED WITH CONCRETE PLACEMENT WITHOUT PRIOR REVIEW BY THE STRUCTURAL ENGINEER.

SLABS ON METAL DECK SHALL RECEIVE A SMOOTH TROWEL FINISH, AND BE PLACED TO ACHIEVE THE FOLLOWING MINIMUM TOLERANCES:

- OVERALL VALUES: FF = +25  
LOCAL VALUES: FF = +20

PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL THE CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE WATER. DO NOT SPRINKLE FINE CEMENT ON THE SLAB SURFACE.

PROVIDE CURING OF CONCRETE SLABS IMMEDIATELY AFTER FINISHING USING A SPRAYED ON DISPERSING-RESIN LIQUID CURING COMPOUND CONFORMING TO ASTM C209. UNLESS NOTED OTHERWISE, ALL SURFACES OR ABRASIONS TO THE CURING MEMBRANE SHALL BE RECOATED DAILY, OTHER CURING METHODS MAY BE USED WITH APPROVAL BY THE STRUCTURAL ENGINEER.

NON-SHRINK GROUT

GROUT SHALL BE A NON-METALLIC, SHRINKAGE RESISTANT (WHEN TESTED IN ACCORDANCE WITH THE LATEST EDITION OF ASTM C827 OR CRO-C621), PREMIXED, NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING PORTLAND CEMENT, SILICA SANDS, SHRINKAGE COMPENSATING AGENTS AND FLUIDITY IMPROVING COMPOUNDS. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (FC) OF 5,000 PSI IN 28 DAYS.

WATERSTOPS

SELF-EXPANDING STRIP WATER STOPS SHALL BE VOLCLAY WATERSTOP-RX 101 UNLESS NOTED OTHERWISE. INSTALL IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.

REINFORCING STEEL

REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI.

REINFORCING BAR DETAILING, FABRICATING, AND PLACING SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING STANDARDS: ACI 301, ACI 315, ACI 318 AND ACI DETAILING MANUAL (SP96).

UNLESS A GREATER AMOUNT OF COVER IS INDICATED ON THE DRAWINGS, PROVIDE THE FOLLOWING MINIMUM CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES  
#6 BARS AND LARGER EXPOSED TO EARTH OR WEATHER: 2 INCHES  
#5 BARS AND SMALLER EXPOSED TO EARTH OR WEATHER: 1 1/2 INCHES  
BEAM AND COLUMN TIES, STIRRUPS AND SPIRALS: 1 1/2 INCHES  
ELEVATED SLAB BARS NOT EXPOSED TO EARTH OR WEATHER: 3/4 INCH

REINFORCING STEEL SHALL NOT BE TACK WELDED, WELDED, HEATED OR CUT UNLESS INDICATED ON THE CONTRACT DOCUMENTS OR APPROVED BY THE STRUCTURAL ENGINEER.

WHERE LAP SPICE LENGTHS ARE NOT SHOWN OR NOTED, PROVIDE A CLASS "B" LAP.

ALL 90 DEGREE AND 180 DEGREE BENDS SHOWN ON THE DRAWINGS SHALL BE STANDARD HOOKS, UNLESS NOTED OTHERWISE.

PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT CORNERS OF ALL WALLS AND GRADE BEAMS. LAP SPICE CORNER BARS WITH STRAIGHT BARS.

UNLESS OTHERWISE SHOWN OR NOTED, PROVIDE 2 #5 BARS (ONE EACH FACE) AROUND UNFRAMED OPENINGS IN CONCRETE WALLS AND GRADE BEAMS. PLACE BARS PARALLEL TO THE SIDES OF THE OPENING AND EXTEND 24" BEYOND CORNERS.

WELDABLE REINFORCING STEEL

REINFORCING STEEL, WHICH IS TO BE WELDED SHALL CONFORM TO ASTM A706. WELDING OF REINFORCING STEEL, WHEN APPROVED BY THE STRUCTURAL ENGINEER, SHALL CONFORM TO THE LATEST EDITION OF AMERICAN WELDING SOCIETY STANDARD D1.1. ELECTRODES FOR SHOP AND FIELD WELDING OF REINFORCING STEEL SHALL CONFORM TO ASTM A233, CLASS EXXXQ.

EPOXY-COATED REINFORCING STEEL

EPOXY COATED REINFORCING STEEL SHALL CONFORM TO ASTM A778 AND SHALL BE USED ONLY WHERE SHOWN OR NOTED ON THE DRAWINGS.

WELDED WIRE FABRIC

WELDED WIRE FABRIC SHALL BE SMOOTH WIRE FABRIC CONFORMING TO ASTM A185. FABRIC SHALL BE SUPPLIED IN FLAT SHEETS AND LAPPED A MINIMUM OF ONE SPACE PLUS 2 INCHES.

WELDED WIRE FABRIC SHALL BE PLACED AS FOLLOWS, UNLESS NOTED OTHERWISE: SLABS ON METAL DECK: 3/4 INCH DOWN FROM TOP OF SLAB.

FIBER REINFORCEMENT

FIBER REINFORCEMENT SHALL BE 3/4" LONG, VIRGIN (NON-RECYCLED) NYLON OR POLYPROPYLENE FIBERS, INTRODUCED INTO THE CONCRETE MIX AT THE BATCH PLANT, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. DOSAGE SHALL BE 1.5 POUNDS PER CUBIC YARD OF CONCRETE.

CONCRETE TESTING

MAKE ONE SET OF TEST CYLINDERS IN ACCORDANCE WITH ASTM C31 FOR EACH DAY'S POUR AND FOR EACH 100 CUBIC YARDS. EACH SET SHALL INCLUDE ONE SPECIMEN TESTED AT 7 DAYS, 2 SPECIMENS TESTED AT 28 DAYS AND ONE SPECIMEN TESTED IN RESERVE TO BE TESTED AT THE DIRECTION OF THE STRUCTURAL ENGINEER. SPARE CYLINDER MAY BE DISCARDED 90 DAYS AFTER CASTING UNLESS DIRECTED OTHERWISE BY THE STRUCTURAL ENGINEER. THIS SET OF TEST CYLINDERS SHALL BE PROTECTED AGAINST FREEZING.

WHEN THE AMBIENT TEMPERATURE IS EXPECTED TO FALL BELOW 40 DEGREES DURING THE COURSE OF A CONCRETE POUR OR SUBSEQUENT CURING PROCESS, AN ADDITIONAL SET OF CONCRETE TEST CYLINDERS SHALL BE MADE AND TESTED. THESE CYLINDERS SHALL BE TESTED AT THE DIRECTION OF THE STRUCTURAL ENGINEER UNDER THE SAME CONDITIONS AS THE BUILDING CONCRETE. SPECIAL CURING BOXES ARE NOT PERMITTED FOR THESE TEST CYLINDERS.

FORWARD COPIES OF TEST RESULTS TO THE ARCHITECT, STRUCTURAL ENGINEER, READY-MIX SUPPLIER AND CONTRACTOR WITHIN 24 HOURS AFTER TESTING.

MASONRY

CONCRETE MASONRY HAS BEEN DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES (ACI 530).

CONCRETE MASONRY SHALL CONSIST OF HOLLOW UNITS CONFORMING TO THE REQUIREMENTS OF ASTM C90, WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 1800 PSI. CONCRETE MASONRY ASSEMBLAGES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (FM) OF 1,500 PSI AT 28 DAYS.

MORTAR SHALL BE TYPE S FORTIFIED IN ACCORDANCE WITH ASTM C270.

GROUT FOR REINFORCED MASONRY SHALL BE PROPORTIONED IN ACCORDANCE WITH ASTM C476. COARSE AND FINE AGGREGATES SHALL CONFORM TO ASTM C404. USE COARSE GROUT FOR ALL GROUTING EXCEPT HIGH-LIFT POURS DEFINED BY ACI 530-05 TABLE 1.16.1, WHERE FINE GROUT SHALL BE USED.

BEAMS AND LINTELS SHALL BEAR A MINIMUM OF 8 INCHES ONTO SUPPORTING MASONRY, UNLESS NOTED OTHERWISE. BEARING FOR ALL BEAMS, LINTELS, JOISTS, ETC. SHALL BE GROUDED SOLID A MINIMUM OF ONE COURSE (8 INCHES) BELOW BEARING ELEVATION, UNLESS NOTED OTHERWISE.

GROUT SOLID ALL BELOW-GRADE CMU.

EXPANSION ANCHORS

EXPANSION ANCHORS SHALL BE HILTI "Kwik Bolt" TZ OR AN EQUIVALENT SUBSTITUTE APPROVED BY THE STRUCTURAL ENGINEER, UNO.



## STEEL CONSTRUCTION SPECIAL INSPECTION REQUIREMENTS

INSPECTION REQUIREMENTS		FREQUENCY OF INSPECTION	REFERENCE STANDARD	CODE (IBC) REFERENCE
1.	MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS.		APPLICABLE ASTM MATERIAL SPECS.	
A.	VERIFY IDENTIFICATION MARKS CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC	AISC 360 SECTION A3.3	
B.	MANUFACTURER'S CERTIFICATE OF COMPLIANCE	PERIODIC	—	—
2.	INSPECTION OF HIGH-STRENGTH BOLTING			
A.	BEARING-TYPE CONNECTIONS	PERIODIC	AISC 360 SECTION M2.5	1704.3.3
B.	SLIP-CRITICAL CONNECTIONS	CONTINUOUS	AISC 360 SECTION M2.5	1704.3.3
3.	MATERIAL VERIFICATION OF STRUCTURAL STEEL.			
A.	VERIFY IDENTIFICATION MARKS CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	—	ASTM A6 OR A568	1708.4
B.	MANUFACTURER'S CERTIFIED MILL TEST REPORTS	—	ASTM A6 OR A568	1708.4
4.	MATERIAL VERIFICATION OF WELD FILLER MATERIALS.			
A.	VERIFY IDENTIFICATION MARKS CONFORM TO AWS SPECIFICATION INDICATED IN THE APPROVED CONSTRUCTION DOCUMENTS.	—	AISC 360 SECTION A3.5	—
B.	MANUFACTURER'S CERTIFICATE OF COMPLIANCE.	—	—	—
5.	INSPECTION OF WELDING:			
A.	STRUCTURAL STEEL		AWS D1.1 (UNO)	1704.3.1
1)	COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	CONTINUOUS		
2)	MULTI-PASS FILLET WELDS	CONTINUOUS		
3)	SINGLE-PASS FILLET WELDS (GREATER THAN 5/16")	CONTINUOUS		
4)	SINGLE-PASS FILLET WELDS (NOT TO EXCEED 5/16")	PERIODIC		
5)	DECK WELDS	PERIODIC	AWS D1.3	
B.	REINFORCING STEEL		AWS D1.4 ; ACI 318 : 3.5.2	
1)	VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706	PERIODIC		
2)	REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINF. CONCRETE SHEAR WALLS, AND SHEAR REINFORCEMENT.	CONTINUOUS		
3)	SHEAR REINFORCEMENT	CONTINUOUS		
4)	OTHER REINFORCING STEEL	PERIODIC		
6.	INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS		—	1704.3.2
A.	BRACING AND STIFFENER DETAILS.	PERIODIC		
B.	MEMBER LOCATIONS.	PERIODIC		
C.	APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	PERIODIC		

## CONCRETE CONSTRUCTION SPECIAL INSPECTION REQUIREMENTS

	INSPECTION REQUIREMENTS	FREQUENCY OF INSPECTION	REFERENCE STANDARD	CODE (IBC) REFERENCE
1.	INSPECTION OF REINFORCING STEEL INCLUDING PRESTRESSED TENDONS, AND PLACEMENT.	PERIODIC	ACI 318: 3.5, 7.1-7.7	1913.4
2.	INSPECTION OF REINFORCING STEEL WELDING.	SEE IBC TABLE 1704.3, ITEM 5B	AWS D1.4, ACI 318: 3.5.2	—
3.	INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	CONTINUOUS	—	1911.5
4.	VERIFYING USE OF REQUIRED DESIGN CONCRETE MIX.	PERIODIC	ACI 318: CH. 4, 5.2-5.4	1904.2.2, 1913.2, 1913.3
5.	AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS	ASTM C31, ASTM C172, ACI 318: 5.6, 5.8	1913.10
6.	INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8
7.	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 5.11-5.13	1913.9
8.	INSPECTION OF PRESTRESSED CONCRETE. A. APPLICATION OF PRESTRESSING FORCES.	CONTINUOUS	ACI 318: 18.20	—
9.	ERECTION OF PRECAST CONCRETE MEMBERS.	PERIODIC	ACI 318: CH. 16	—
9.	INSPECTION OF EMBEDDED ITEMS (FOR PRECAST ATTACHMENT) PRIOR TO CAST-IN-PLACE CONCRETE PLACEMENT	CONTINUOUS	ACI 318: CH. 16	—
11.	VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	ACI 318: 6.2	—
12.	INSPECT FORM/WORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	ACI 318: 6.1.1	—

## MASONRY CONSTRUCTION SPECIAL INSPECTION REQUIREMENTS

	INSPECTION TASK	FREQUENCY OF INSPECTION	REFERENCE FOR CRITERIA		
			2006 IBC SECTION	ACI 530/ ASCE 5/ TMS 402	ACI 530.1/ ASCE6/ TMS 602
1.	FROM THE BEGINNING OF MASONRY CONSTRUCTION, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. PROPORTIONS OF SITE PREPARED MORTAR. B. CONSTRUCTION OF MORTAR JOINTS. C. LOCATION OF REINFORCEMENT, CONNECTORS, AND ANCHORAGES.	PERIODIC PERIODIC PERIODIC	—	—	2.6A 3.3B 3.4, 3.6A
2.	THE INSPECTION PROGRAM SHALL VERIFY: A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. B. TYPE, SIZE AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION. C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT. D. WELDING OF REINFORCING BARS. E. PROTECTION OF MASONRY DURING COOL WEATHER (TEMPERATURE BELOW 40 DEG F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEG F)	PERIODIC PERIODIC  PERIODIC CONTINUOUS PERIODIC	    2104.3, 2104.4	1.2.2 (E), 2.1.4, 3.1.6  1.13 2.1.10.7.2, 3.3.3.4 (B)	3.3G  2.4, 3.4 1.8C, 1.8D
3.	PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. GROUT SPACES IS CLEAN. B. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND ANCHORAGES C. PROPORTIONS OF SITE-PREPARED GROUT AND ANCHORAGES. D. CONSTRUCTION OF MORTAR JOINTS.	PERIODIC PERIODIC  PERIODIC	—	1.13	3.2D 3.4 2.6B 3.3B
4.	GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.	CONTINUOUS	—	—	3.5
5.	PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	CONTINUOUS	2105.2.2, 2105.3	—	1.4
6.	COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE SUBMITTALS SHALL BE VERIFIED.	PERIODIC	—	—	1.5

SPECIAL INSPECTION

SPECIAL INSPECTION IS A MANDATORY REQUIREMENT OF THE CONTRACTOR FOR VERIFYING CONFORMANCE OF THE INDICATED CONSTRUCTION. SPECIAL INSPECTION IS REQUIRED IN ADDITION TO ALL MATERIAL TESTS AND INSPECTIONS IDENTIFIED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.

THE CONTRACTOR SHALL EMPLOY INDEPENDENT AGENCY(IES) OR INDIVIDUAL(S) TO PROVIDE SPECIAL INSPECTION FOR ITEMS AS INDICATED ON THE DRAWINGS.

THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON, WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER, FOR INSPECTION OF EACH PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

"PERIODIC" SPECIAL INSPECTION IS DEFINED AS "THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK."

"CONTINUOUS" SPECIAL INSPECTION IS DEFINED AS "THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED."

THE CONTRACTOR SHALL SUBMIT TO THE STRUCTURAL ENGINEER FOR REVIEW A MINIMUM OF 14 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION OF ELEMENTS REQUIRING SPECIAL INSPECTION THE FOLLOWING:

1. NAME(S), ADDRESS(ES), TELEPHONE NUMBER(S), EMAIL ADDRESS(ES), AND STATEMENT(S) OF QUALIFICATIONS OF ALL SPECIAL INSPECTOR(S) TO BE ENGAGED ON THE PROJECT.
2. A LISTING OF ALL ITEMS TO RECEIVE SPECIAL INSPECTION, DESIGNATION WHETHER INSPECTION WILL BE CONTINUOUS OR PERIODIC AND THE NAME OF THE INDIVIDUAL THAT WILL BE PERFORMING INSPECTION FOR EACH ITEM.

THE CONTRACTOR SHALL COORDINATE WITH THE SPECIAL INSPECTOR SUFFICIENTLY IN ADVANCE OF WORK REQUIRING SPECIAL INSPECTION AND SHALL PROVIDE ACCESS TO THE SITE AND TO THE CONSTRUCTION DOCUMENTS (CURRENT DRAWINGS AND SPECIFICATIONS) FOR THE SPECIAL INSPECTOR CARRY OUT THE REQUIRED OPERATIONS.

THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK REQUIRING SPECIAL INSPECTION FOR CONFORMANCE TO THE CONSTRUCTION DOCUMENTS. ALL NON-CONFORMING WORK SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. THEN, IF UNCORRECTED, TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER.

THE SPECIAL INSPECTOR SHALL SUBMIT PERIODIC PROGRESS REPORTS TO THE CONTRACTOR AND STRUCTURAL ENGINEER IDENTIFYING ALL SPECIAL INSPECTION OPERATIONS PERFORMED. REPORTS SHALL BE SUBMITTED NO MORE THAN 7 DAYS FOLLOWING EACH SPECIAL INSPECTION OPERATION. REPORTS SHALL IDENTIFY THE ITEM(S) INSPECTED AND AN INDICATION OF WHETHER THE INSPECTED ITEMS WERE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.

AT THE COMPLETION OF ALL WORK REQUIRING SPECIAL INSPECTION, THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT TO THE OWNER AND STRUCTURAL ENGINEER STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.

FAILURE TO PERFORM SPECIAL INSPECTION FOR THE INDICATED CONSTRUCTION OR FAILURE TO CORRECT NON-CONFORMING WORK SHALL CONSTITUTE A BASIS FOR REJECTION OF THE WORK AND REMOVAL AND REPLACEMENT BY THE GENERAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER, INCLUDING, BUT NOT LIMITED TO:

1. THE COST OF REMOVAL AND REPLACEMENT OF ALL WORK FOR WHICH SPECIAL INSPECTION WAS REQUIRED BUT NOT PERFORMED, INCLUDING THE COST OF TESTING AND SPECIAL INSPECTION FOR THE REPLACEMENT WORK.
2. THE COST OF ALL RELATED WORK MADE NECESSARY BY THE REMOVAL AND REPLACEMENT OF THE UNSPECTED WORK PER ITEM 1 ABOVE.
3. THE COST FOR DESIGN PROFESSIONAL'S SERVICES RELATED TO ALL WORK FOR WHICH SPECIAL INSPECTION WAS REQUIRED BUT NOT PERFORMED AND SERVICES RELATED TO THE REPLACEMENT WORK.

PROVIDE SPECIAL INSPECTION FOR THE FOLLOWING CONSTRUCTION

CONCRETE MASONRY  
CAST-IN-PLACE CONCRETE  
PRECAST CONCRETE  
STRUCTURAL STEEL

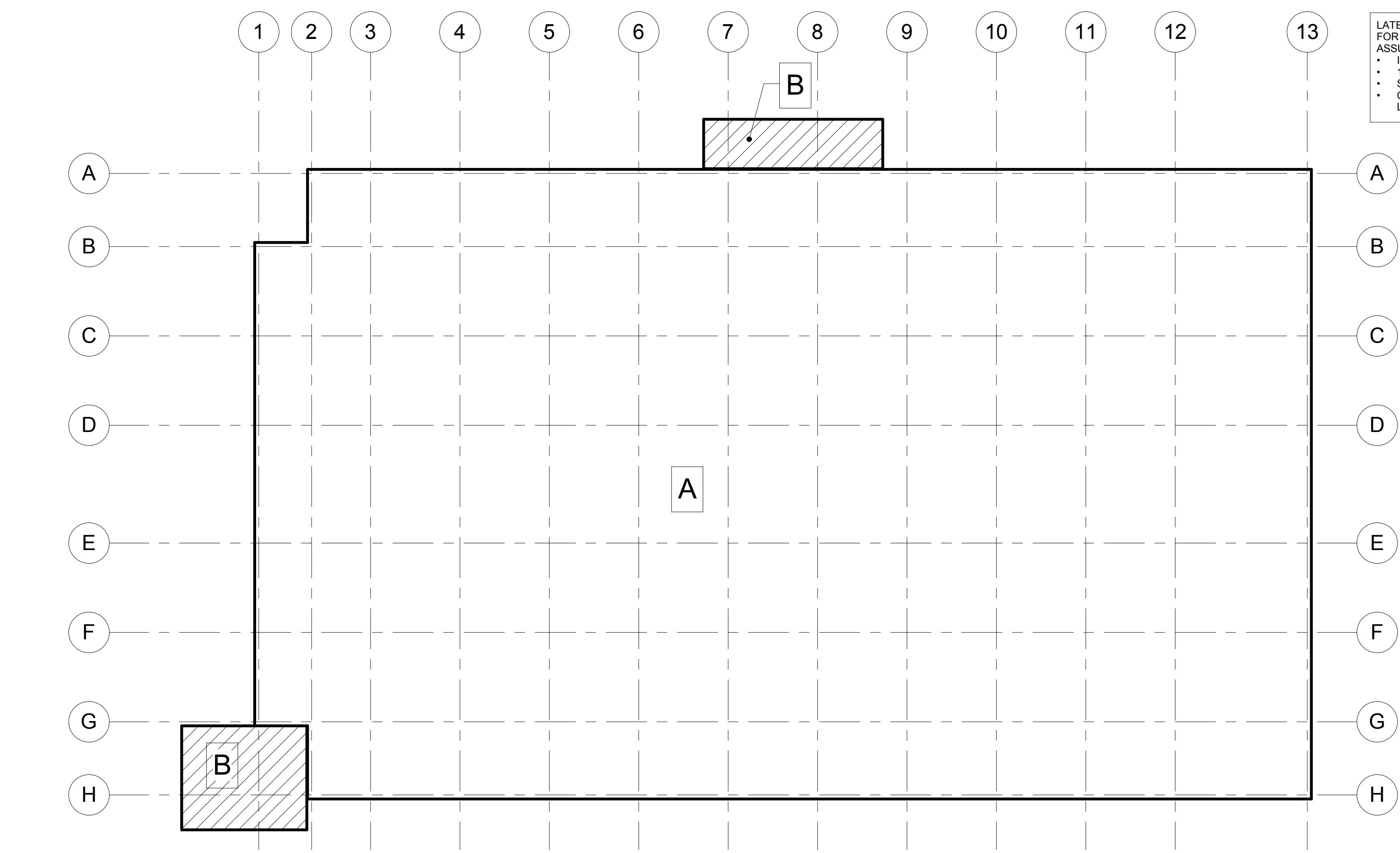
SEE TABLE(S) ON THE DRAWINGS FOR SPECIAL INSPECTION PROGRAM REQUIREMENTS.

## ADDENDUM #1 FOR CONSTRUCTION

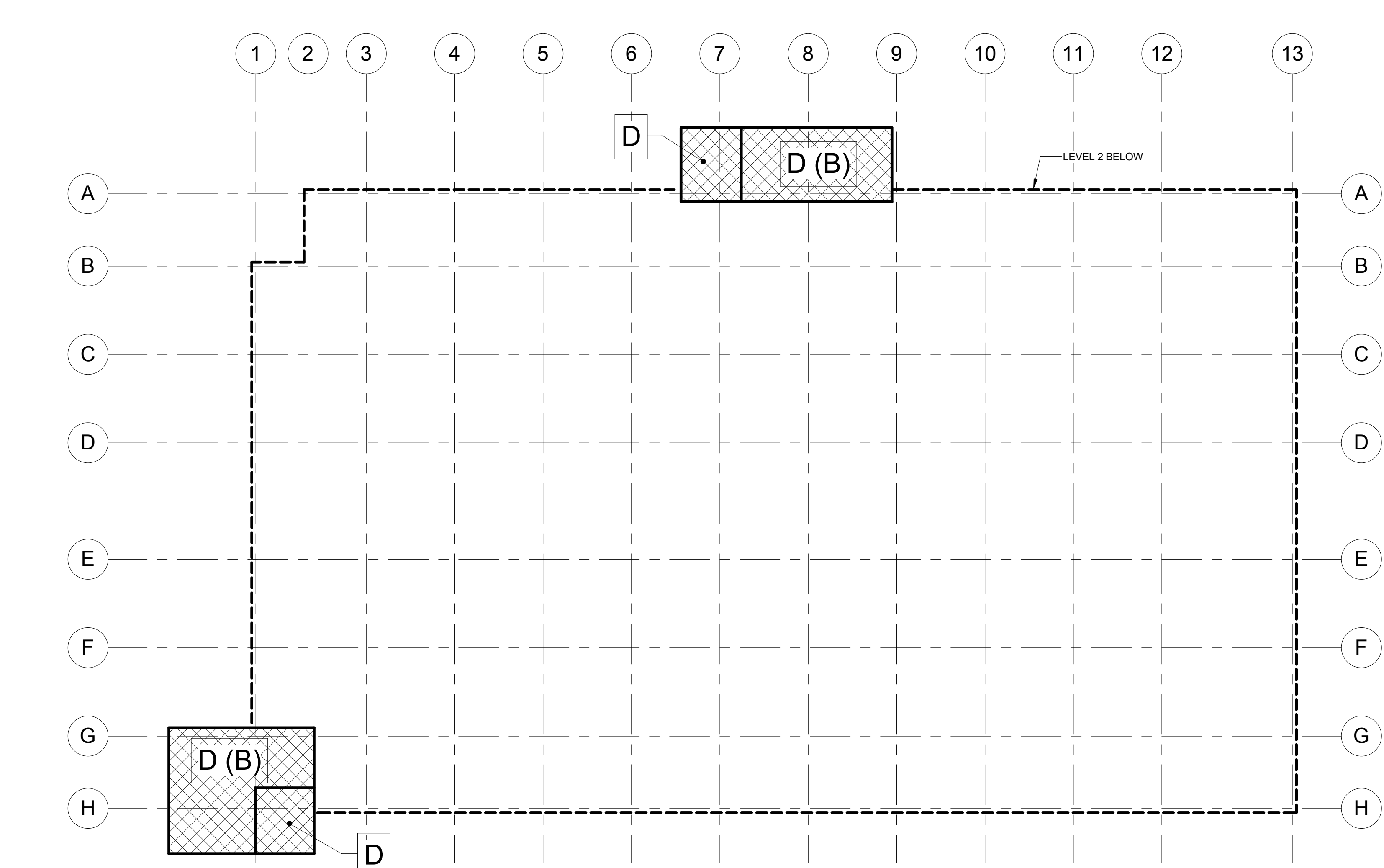
[illegible]



three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot

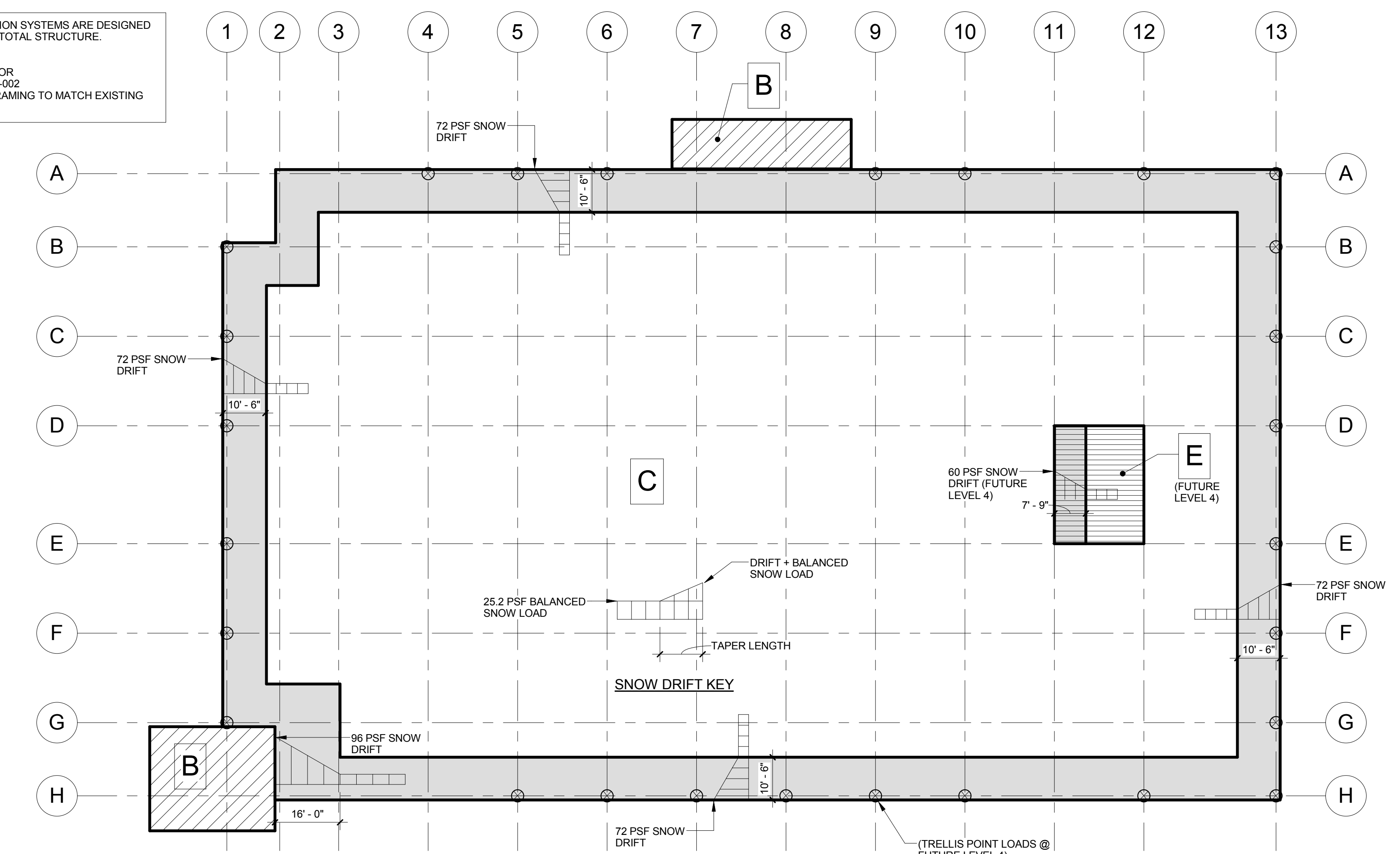


1  
S-004  
LEVEL 1 (FUTURE LEVELS 2-3)  
1" = 20'-0"



3  
S-004  
UPPER ROOF LOAD MAP  
1" = 20'-0"

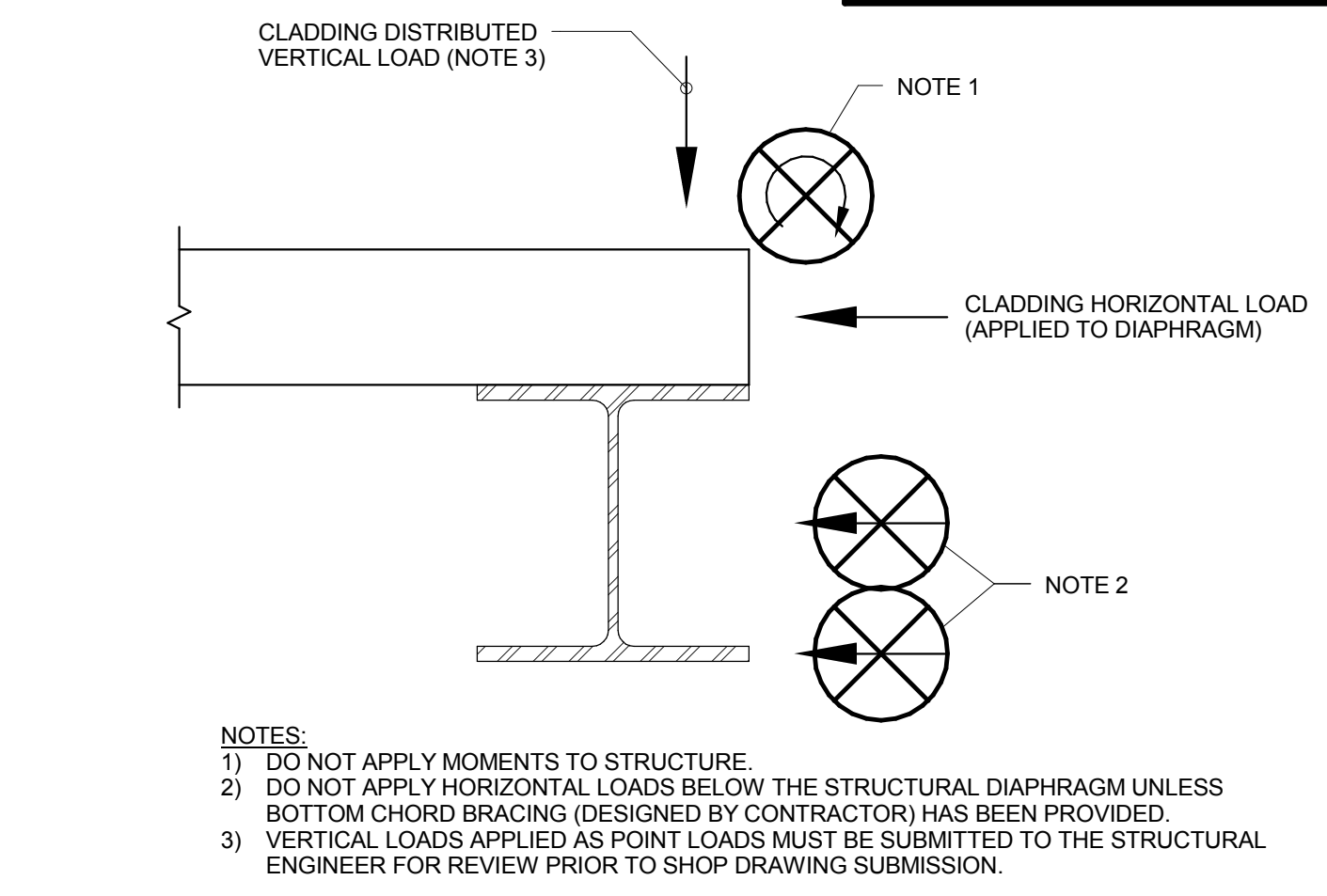
LATERAL AND FOUNDATION SYSTEMS ARE DESIGNED FOR A FUTURE 4-LEVEL TOTAL STRUCTURE.  
ASSUMPTIONS:  
• IBC-2012  
• 12FT FLOOR TO FLOOR  
• SEE DESIGN DATA S-002  
• CONSTRUCTION / FRAMING TO MATCH EXISTING LEVEL 2



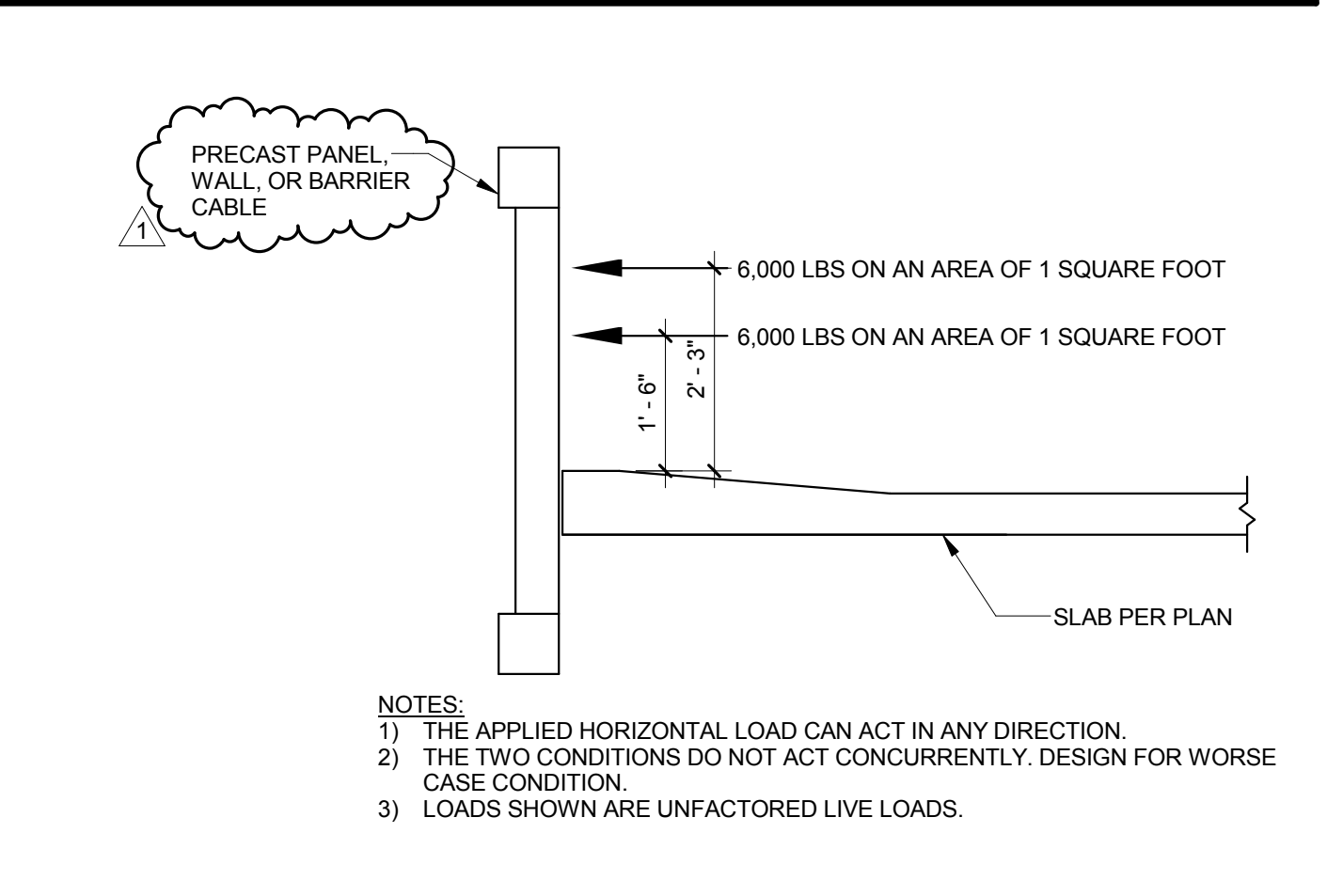
2  
S-004  
LEVEL 2 LOAD MAP (FUTURE LEVEL 4)  
1" = 20'-0"

TRELLIS POINT LOAD		
LOAD	TYPE	VALUE
Pd	DEAD LOAD	880 LBS ↓
Ps	SNOW LOAD	1760 LBS ↓
Pw	WIND LOAD	3256 LBS ⇄
Md	DEAD LOAD MOMENT	+/- 1760 LB*FT ↻
Ms	SNOW LOAD MOMENT	+/- 3520 LB*FT ↻
Mw	WIND LOAD MOMENT	+/- 6512 LB*FT ↻
NOTE: POINT LOADS ARE DENOTED BY THE FOLLOWING SYMBOL AND ARE A RESULT OF FUTURE TRELLIS LOADS APPLIED TO THE TOP OF COLUMN.		

LOAD SCHEDULE						
MARK	OCCUPANCY / USE	SDL		SDL		SL
		LOAD (PSF)	DESCRIPTION	POINT LOAD (LBS)	DESCRIPTION	
A	TYP FLOOR	5	NOTE 1	--	--	40 (NR)
B	STAIRS	5	NOTE 1	--	--	100 (NR)
C	TOP FLOOR	5	NOTE 1	--	--	40 (NR)
D	ROOF	5	NOTE 1	--	--	20
E	PV MECH EQUIPMENT	100	NOTE 1	--	--	20
NOTES: 1. SDL INDICATES SUPERIMPOSED DEAD LOAD AND IS DEAD LOAD IN ADDITION TO THE SELF WEIGHT OF THE PRIMARY STRUCTURAL SYSTEM. 2. (NR) INDICATES NON-REDUCIBLE LIVE LOAD.						



4  
S-004  
TYPICAL CLADDING DIAGRAM  
N.T.S.



5  
S-004  
TYPICAL VEHICLE BARRIER LOADING DIAGRAM  
N.T.S.

1 ADDENDUM #1  
Revisions:  
Date

4/10/2014  
Date

Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501

PROFESSIONAL ENGINEER  
a-27-13

APOGEE  
Consulting Group, PA

CooverClark

AMERICAN  
STRUCTUREPOINT  
INC.

PROJECT LEADER/ARCHITECT:

**GUIDON DESIGN**

2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
317.800.6388 WWW.GUIDONDESIGN.COM  
SUSTAINABLE ARCHITECTURE + ENGINEERING

ADDENDUM #1 FOR CONSTRUCTION

Drawing Title LOAD MAPS	Project Title PARKING GARAGE	Project Number 12.1042 Building Number Bldg - 39	Office of Facilities Management
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA MC Date 4/10/2014 Checked By: JAP Drawn By: BGC	Drawing Number S-004	VA Project Number 575-206 Department of Veterans Affairs



A

B

C

D

E

F

F

A

B

C

D

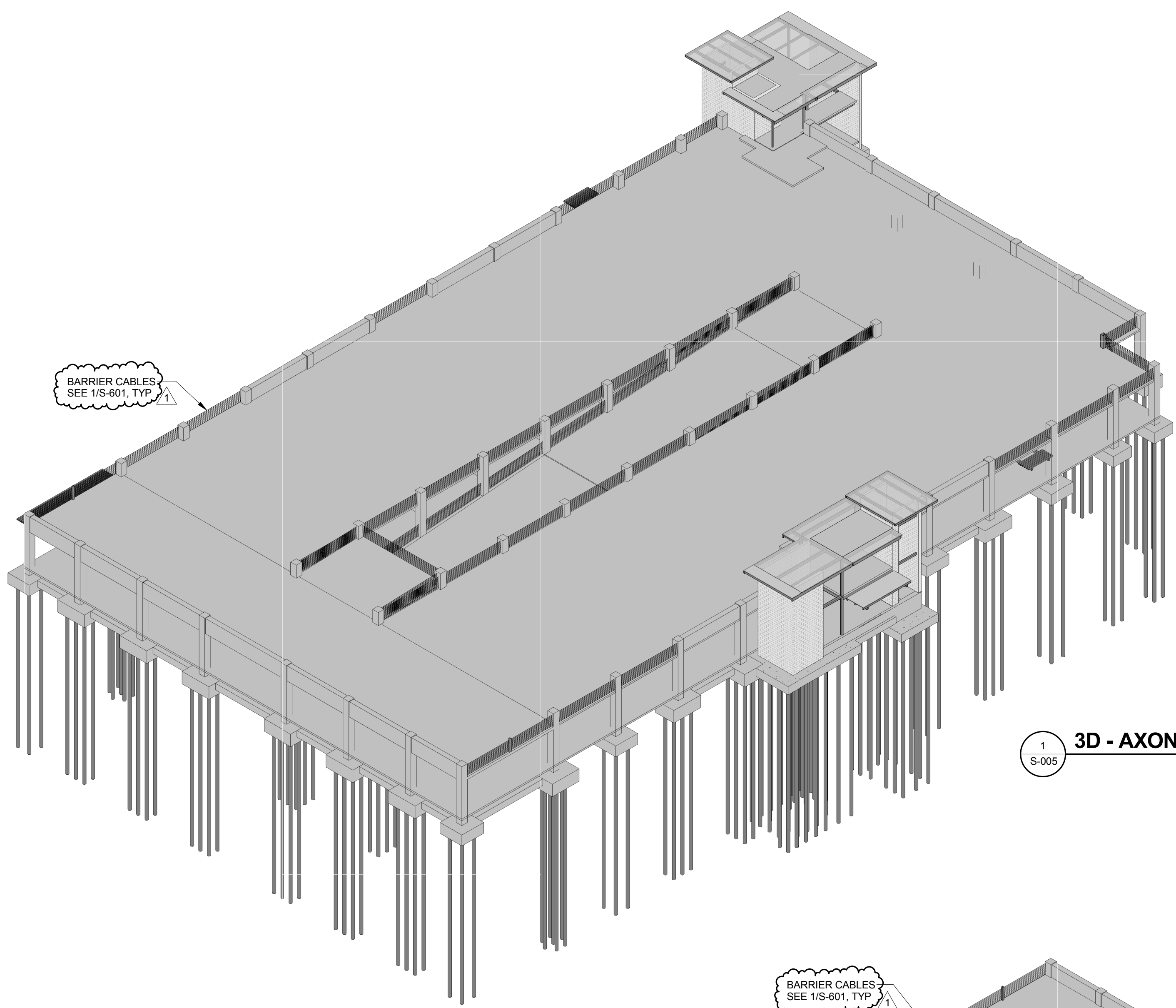
E

F

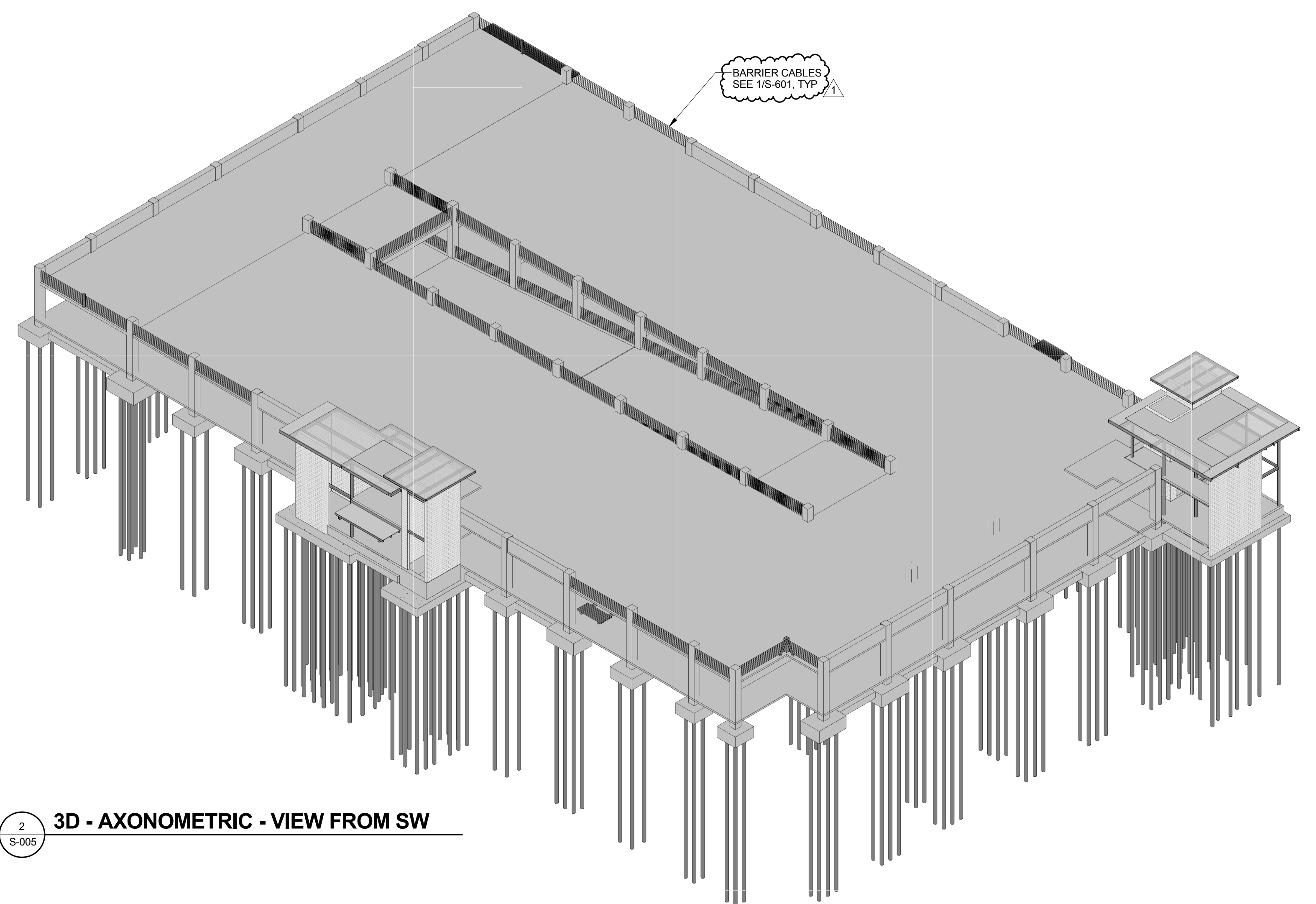
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three inches = one foot  
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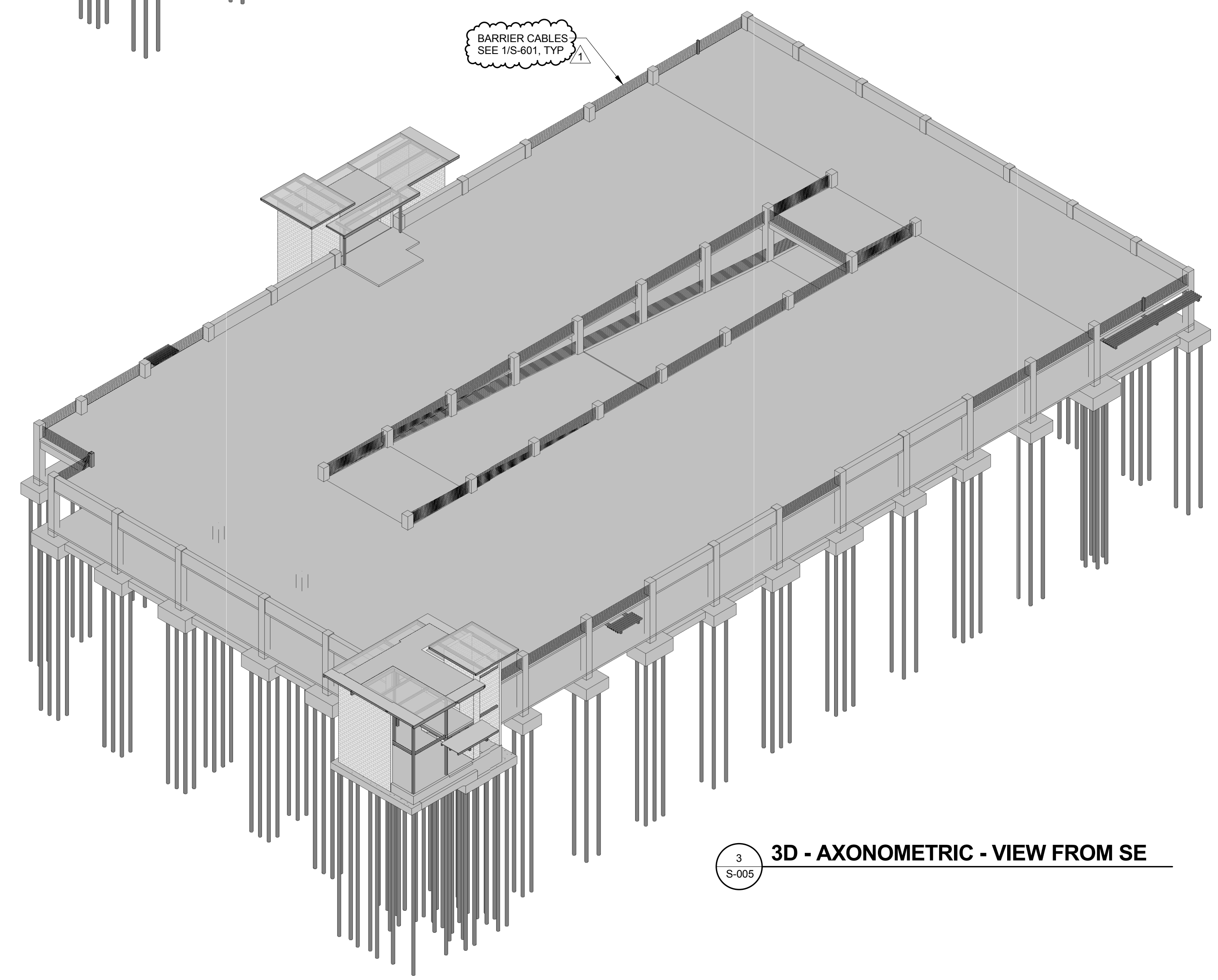
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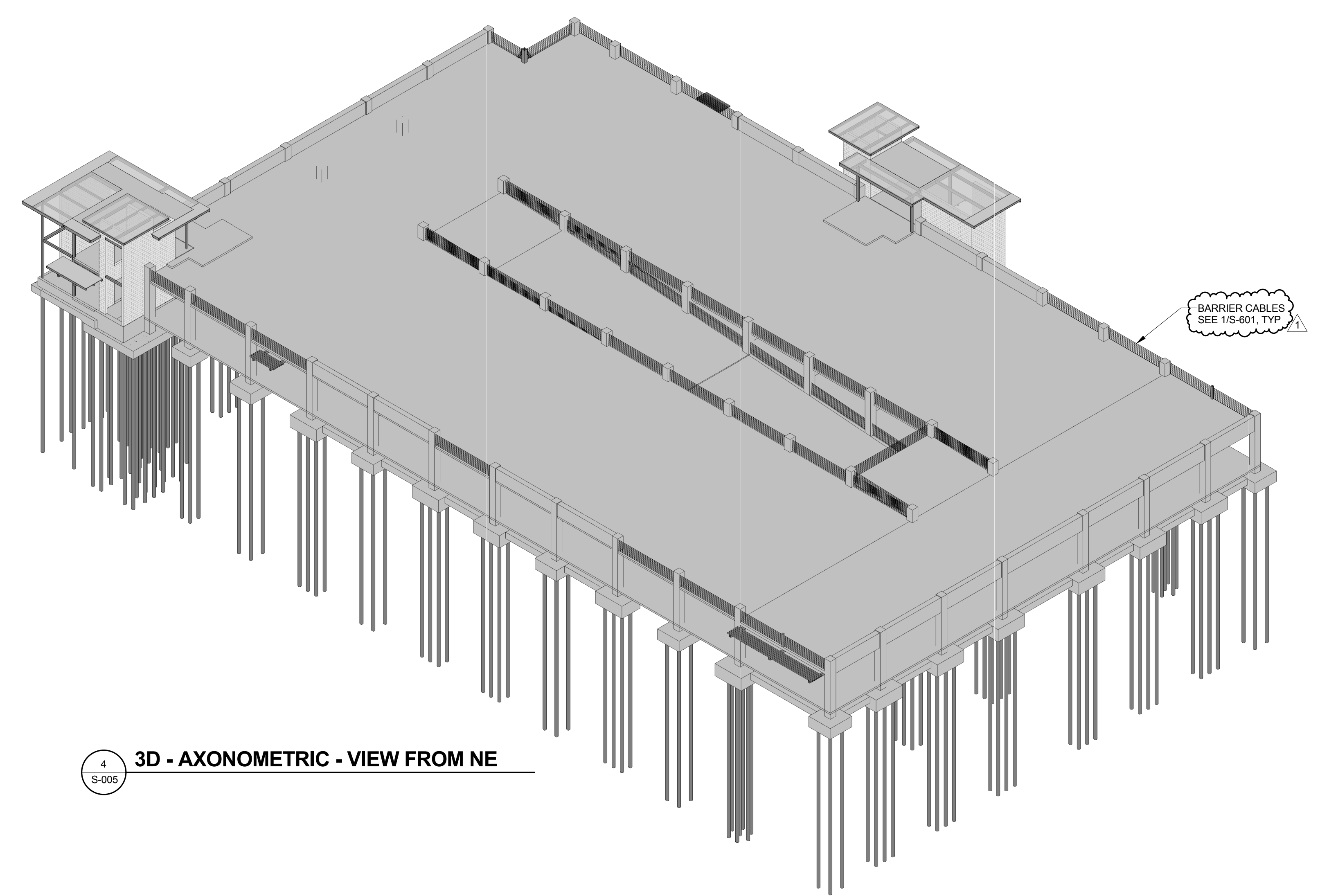
1  
S-005  
3D - AXONOMETRIC - VIEW FROM NW



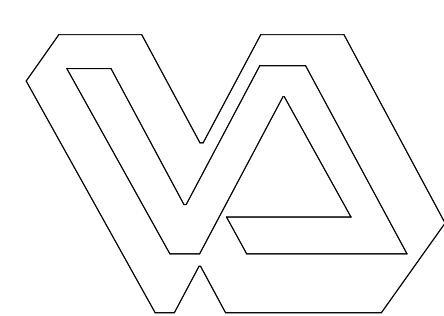







2  
S-005  
3D - AXONOMETRIC - VIEW FROM SW



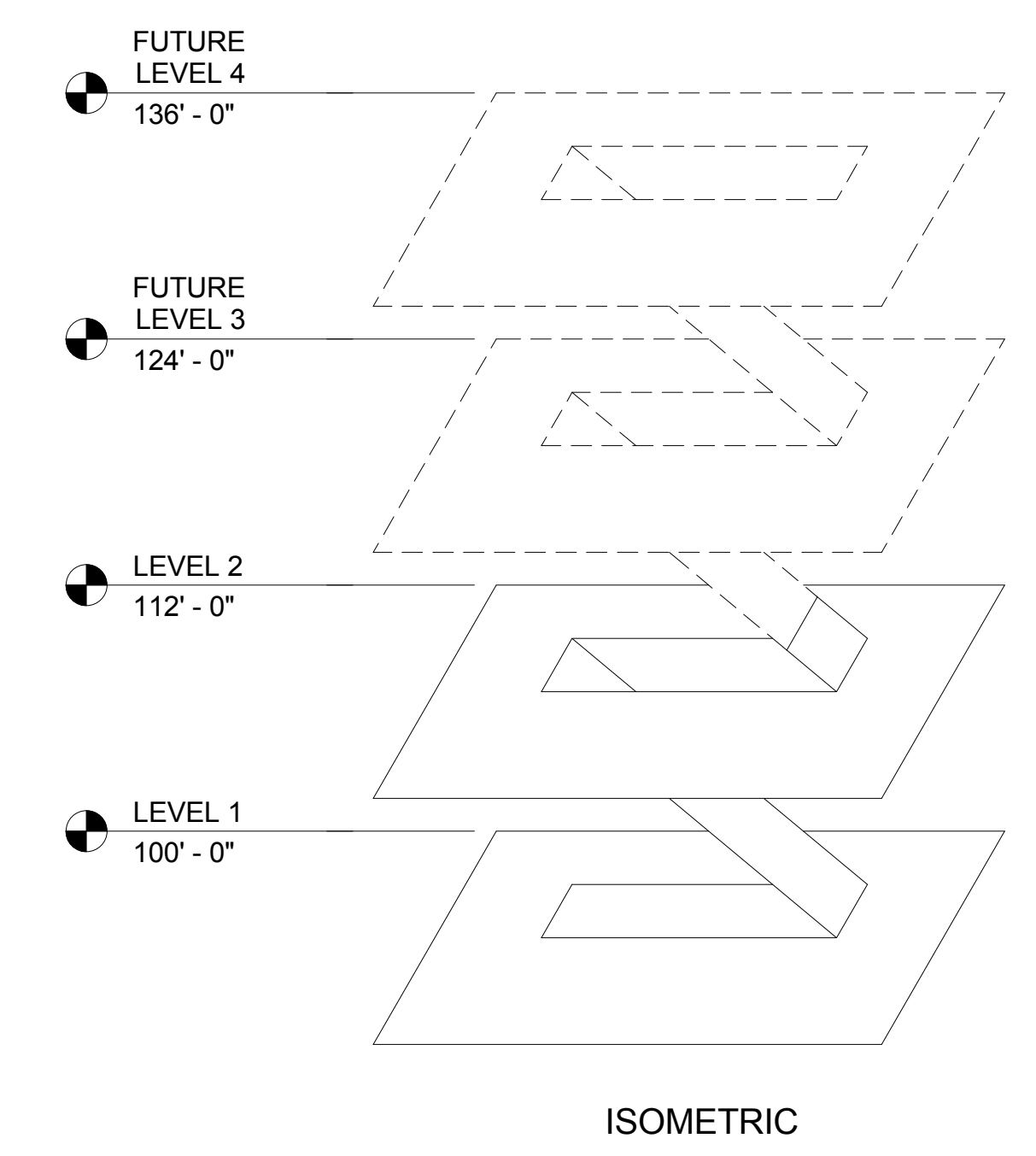
3  
S-005  
3D - AXONOMETRIC - VIEW FROM SE



4  
S-005  
3D - AXONOMETRIC - VIEW FROM NE

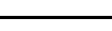
<div><p>Grand Junction VA Medical Center 2121 North Avenue Grand Junction, CO 81501</p></div>		<div><p>COLORADO LICENSED PROFESSIONAL ENGINEER 39624</p></div>	<div><p>APOGEE Consulting Group, PA</p></div> <div><p>CooverClark</p></div> <div><p>AMERICAN STRUCTUREPOINT INC.</p></div>																		
<div><p>PROJECT LEADER/ARCHITECT:</p><p><b>GUIDON DESIGN</b></p><p>2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205 317.800.6388 WWW.GUIDONDESIGN.COM SUSTAINABLE ARCHITECTURE + ENGINEERING</p></div>			<div><p>ADDENDUM #1 FOR CONSTRUCTION</p><table border="1"><tr><td>Drawing Title AXONOMETRICS</td><td>Project Title PARKING GARAGE</td><td>Project Number 12.1042</td><td colspan="2">OFFICE OF FACILITIES MANAGEMENT</td></tr><tr><td>Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016</td><td>Location Grand Junction VA MC</td><td>Drawing Number S-005</td><td colspan="2">VA Project Number 575-206</td></tr><tr><td>Date 4/10/2014</td><td>Checked By: JAP</td><td>Drawn By: BGC</td><td colspan="2"></td></tr></table></div>				Drawing Title AXONOMETRICS	Project Title PARKING GARAGE	Project Number 12.1042	OFFICE OF FACILITIES MANAGEMENT		Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA MC	Drawing Number S-005	VA Project Number 575-206		Date 4/10/2014	Checked By: JAP	Drawn By: BGC		
Drawing Title AXONOMETRICS	Project Title PARKING GARAGE	Project Number 12.1042	OFFICE OF FACILITIES MANAGEMENT																		
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA MC	Drawing Number S-005	VA Project Number 575-206																		
Date 4/10/2014	Checked By: JAP	Drawn By: BGC																			



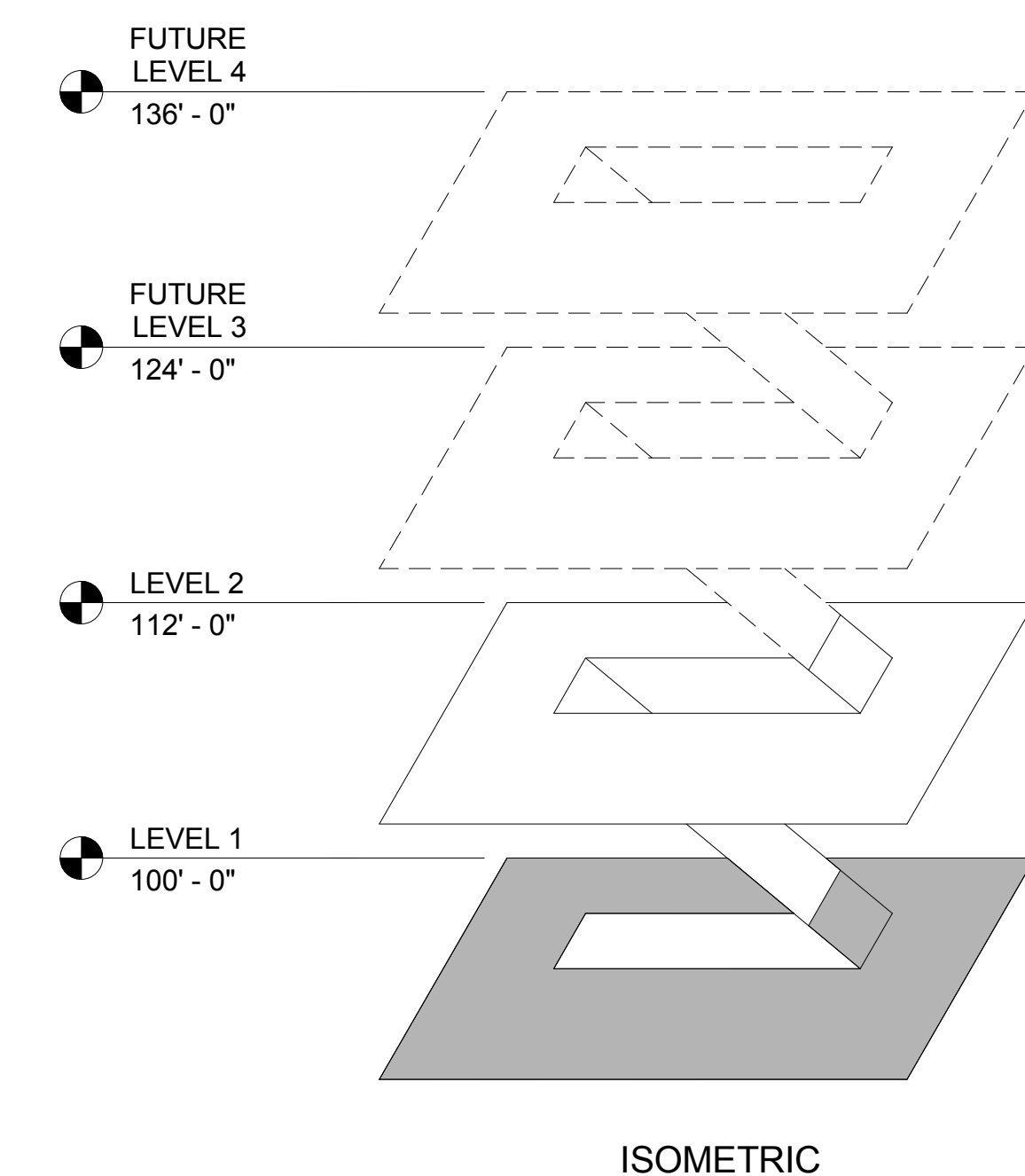


NOTES:

1. REFERENCE TOP OF SLAB ELEVATION = 100'-0" UNO (U.S.G.S. = 4619.00'). SEE SLAB ON GRADE PLAN FOR SPOT ELEVATIONS.
2. TOP OF PILE CAP (TPC) ELEVATION = 98'-0" UNO.
3. REFER TO STRUCTURAL GENERAL NOTES, LEGEND, SCHEDULES, TYPICAL DETAILS, AND SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
4. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS, SIZES, AND DIMENSIONS OF NON-STRUCTURAL ITEMS.
5. PLACE VOID FORMS BELOW ALL GRADE BEAMS.

ADDENDUM #1 FOR CONSTRUCTION						
Drawing Title FOUNDATION PLAN	Project Title  PARKING GARAGE		Project Number 12.1042		OFFICE OF FACILITIES MANAGEMENT	
			Building Number Bldg-39			
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA MC		Drawing Number  S-101		VA Project Number 575-206	
	Date 4/10/2014	Checked By: JAP			Drawn By: BGC	 Department of Veterans Affairs





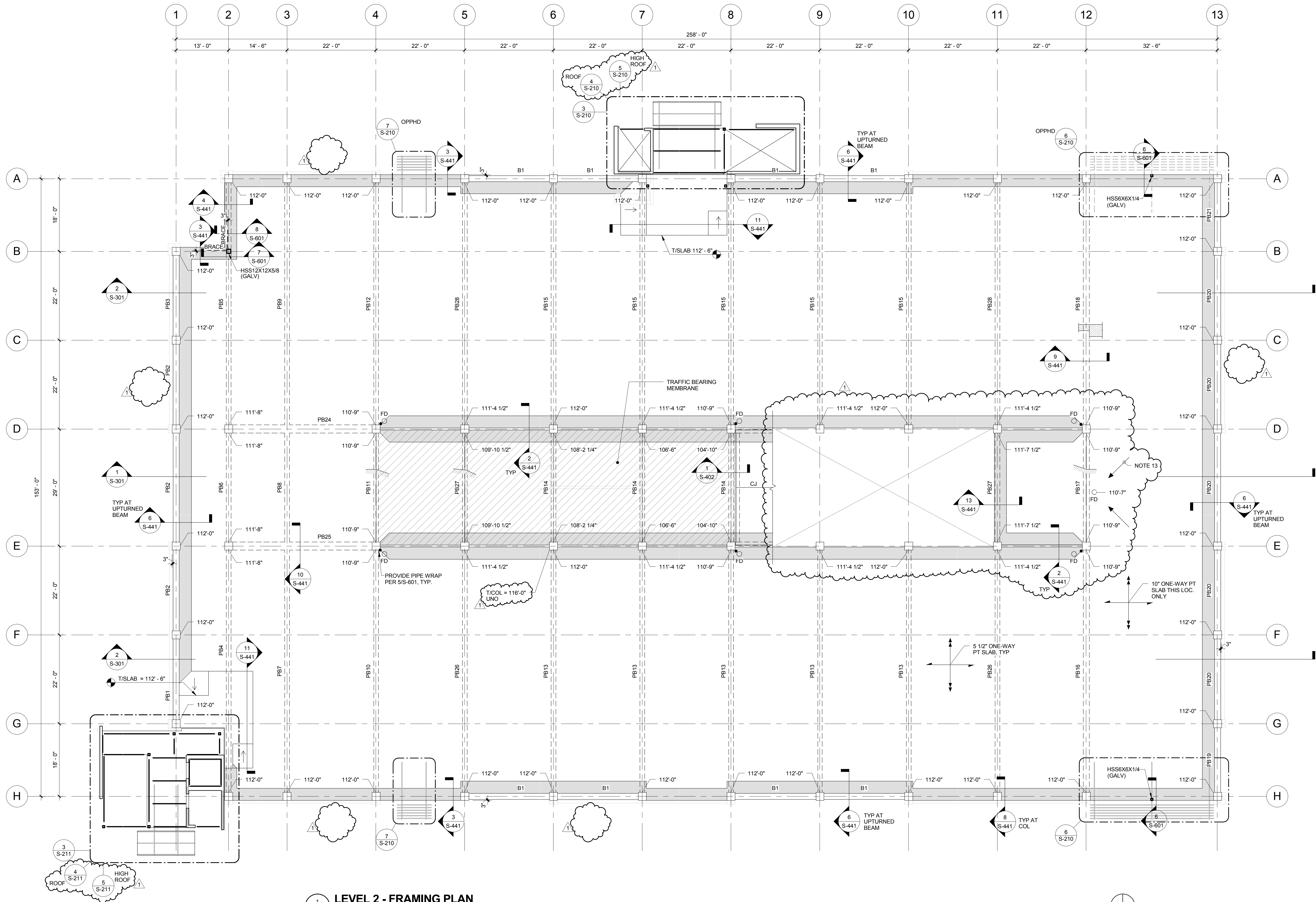
NOTES:

1. REFERENCE TOP OF SLAB ELEVATION = 100'-0" (U) (U.S.G.S. = 4619.00'). SEE PLAN FOR SPOT ELEVATIONS. TOP OF SLAB ELEVATIONS DO NOT INCLUDE WASH CONCRETE. SEE TYPICAL PERIMETER EDGE OF SLAB ON GRADE DETAIL.
2. REFER TO STRUCTURAL GENERAL NOTES, LEGEND, SCHEDULES, TYPICAL DETAILS, AND SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
3. FD INDICATES A CAST IN FLOOR DRAIN. SEE TYPICAL DETAILS.
4. PROVIDE STRUCTURAL DETAIL FOR ALL LOCATIONS, SIZES, AND DIMENSIONS OF NON-STRUCTURAL ITEMS INCLUDING NON-BEARING WALLS, BOLLARDS, AND CURBS.
5. APPLY PENETRATING CONCRETE SEALER TO THE SURFACE OF THE ENTIRE SLAB ON GRADE.
6. SHADING REPRESENTS AREAS WHERE WASH IS REQUIRED. SEE TYPICAL SOO WASH DETAIL.
7. PLACE 1" #4 X 2'-6" MID-DEPTH OF SLAB AT 45 DEGREES AT EACH RE-ENTRANT CORNER.
8. GALVANNEAL EMBEDED STEEL.
9. PROVIDE EPOXY-COATED REINFORCING FOR THE FOLLOWING LOCATIONS:  
COLUMNS - TIES BELOW GRADE  
SLAB ON GRADE - ALL REINFORCING

ADDENDUM #1 FOR CONSTRUCTION						
Drawing Title LEVEL 1 – SLAB ON GRADE		Project Title PARKING GARAGE		Project Number 12.1042		OFFICE OF FACILITIES MANAGEMENT
				Building Number Bldg–39		
Approved for Design Concept: John Bartman John.Bartman@va.gov 970–263–5016		Location Grand Junction VA MC		Drawing Number S–201		VA Project Number 575–206
		Date 4/10/2014	Checked By: JAP			Drawn By: BGC

three inches = one foot  
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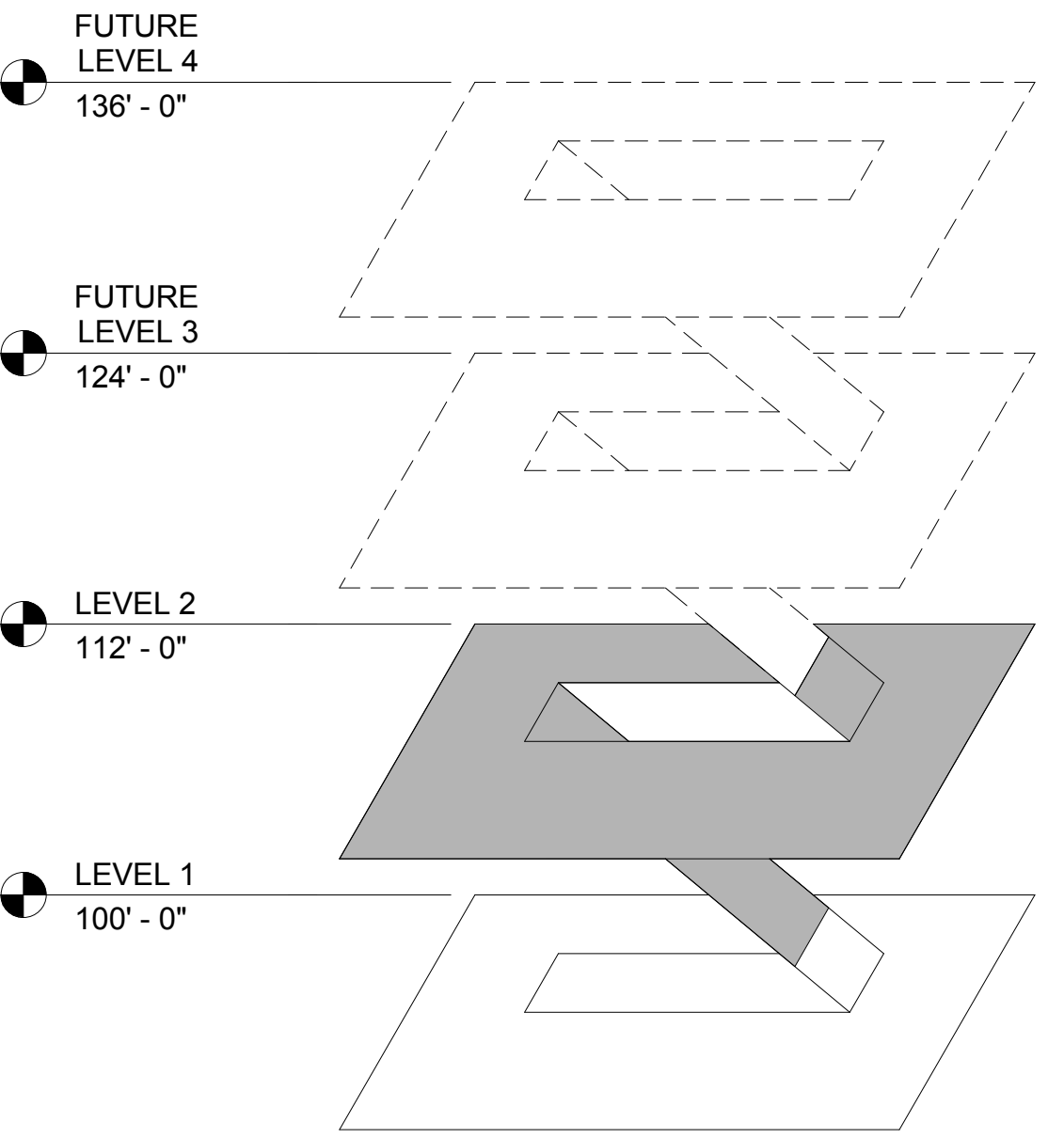
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1 LEVEL 2 - FRAMING PLAN

- NOTES:
1. REFERENCE TOP OF SLAB ELEVATION = 112'-0" UNO. SEE PLAN FOR SPOT ELEVATIONS. ELEVATIONS DO NOT INCLUDE WASH CONCRETE. SEE TYPICAL PERIMETER ELEVATED EDGE OF SLAB DETAIL.
  2. REFER TO STRUCTURAL GENERAL NOTES, LEGEND, SCHEDULES, TYPICAL DETAILS, AND SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
  3. SEE S-202A FOR SLAB PT / REINFORCING PLAN.
  4. SEE S-411 FOR COLUMN SCHEDULE.
  5. FD INDICATES A CAST-IN FLOOR DRAIN. SEE TYPICAL DETAILS. COORDINATE SIZE AND LOCATION WITH PLUMBING DRAWINGS.
  6. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS, SIZES, AND DIMENSIONS OF NON-STRUCTURAL ITEMS INCLUDING NON-BEARING WALLS, BOLLARDS, AND CURBS.
  7. SHADING REPRESENTS AREAS WHERE WASH IS REQUIRED. SEE TYPICAL WASH AT ELEVATED SLAB EDGE DETAIL.
  8. GALVANIZE ALL EMBEDDED STEEL.
  9. PB# INDICATES POST-TENSIONED CONCRETE BEAM. SEE SCHEDULE ON S-432.
  10. B# INDICATES CONCRETE BEAM. SEE SCHEDULE ON S-433.
  11. SEE S-412 FOR RAMP COLUMN REINFORCEMENT DETAILING.
  12. SEE TYPICAL POST-TENSIONED BEAM BLOCKOUT DETAIL FOR ALLOWABLE BLOCKOUT SIZES / LOCATIONS.
  13. PROVIDE POSITIVE DRAINAGE TO FLOOR DRAIN.

PROVIDE MECHANICAL COUPLERS AT TOP OF ALL COLUMNS. SEE 8/S-411. PROTECT THREADS / CONN W/ PLASTIC COVERS, TYP

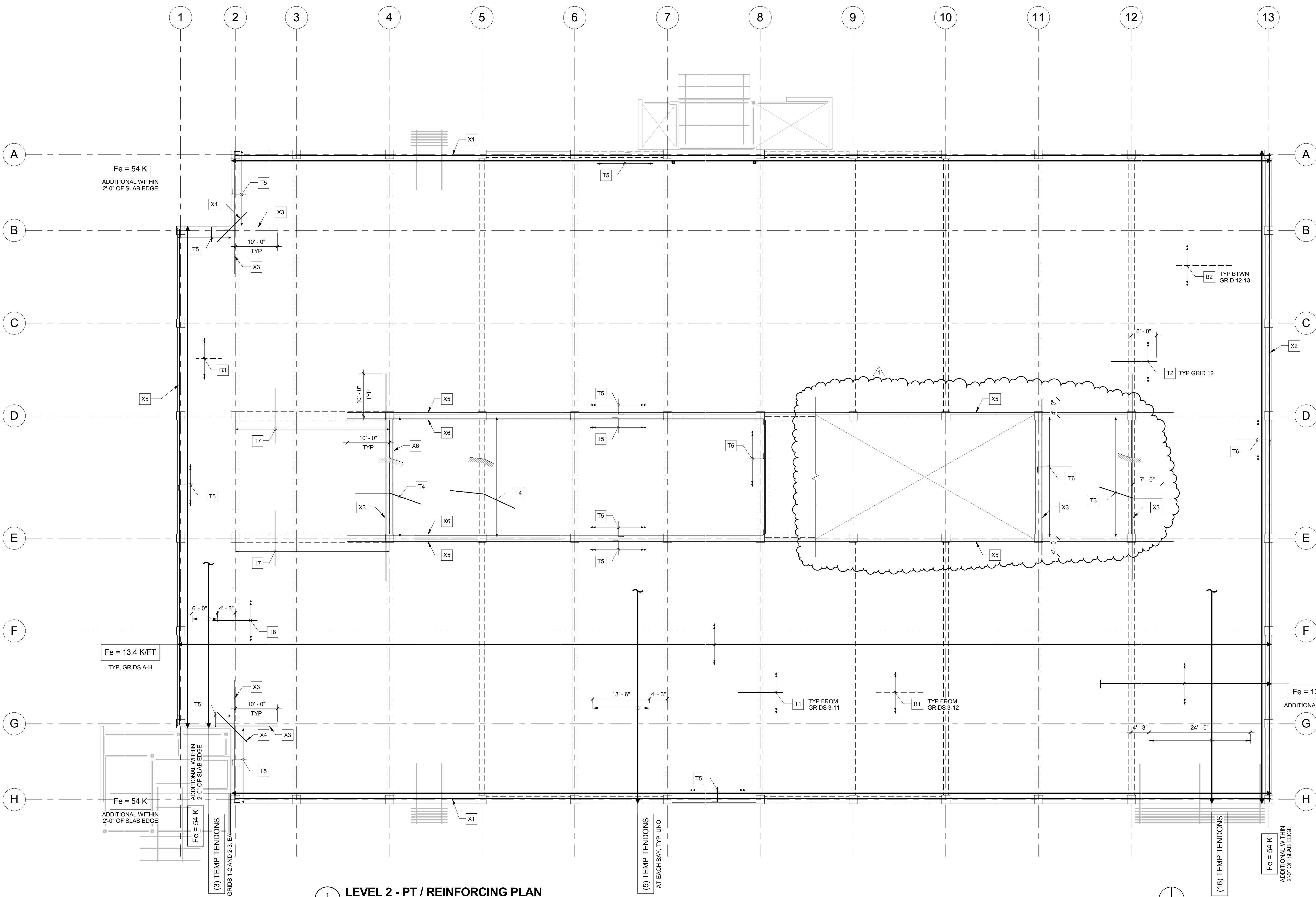


ISOMETRIC

1 ADDENDUM #1		4/10/2014		Grand Junction VA Medical Center 2121 North Avenue Grand Junction, CO 81501		COLORADO LICENSED PROFESSIONAL ENGINEER 39624 a-27-13		APOGEE Consulting Group, PA		AMERICAN STRUCTUREPOINT INC.		PROJECT LEADER/ARCHITECT: <b>GUIDON DESIGN</b> 2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205 317.800.6388 WWW.GUIDONDESIGN.COM SUSTAINABLE ARCHITECTURE + ENGINEERING		ADDENDUM #1 FOR CONSTRUCTION		Drawing Title LEVEL 2 - FRAMING PLAN		Project Title PARKING GARAGE		Project Number 12.1042 Building Number Bldg - 39		Office of Facilities Management	
Revisions:		Date														Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016		Location Grand Junction VA MC		Drawing Number S-202		VA Project Number 575-206	
																Date 4/10/2014		Checked By: JAP		Drawn By: BGC		Department of Veterans Affairs	

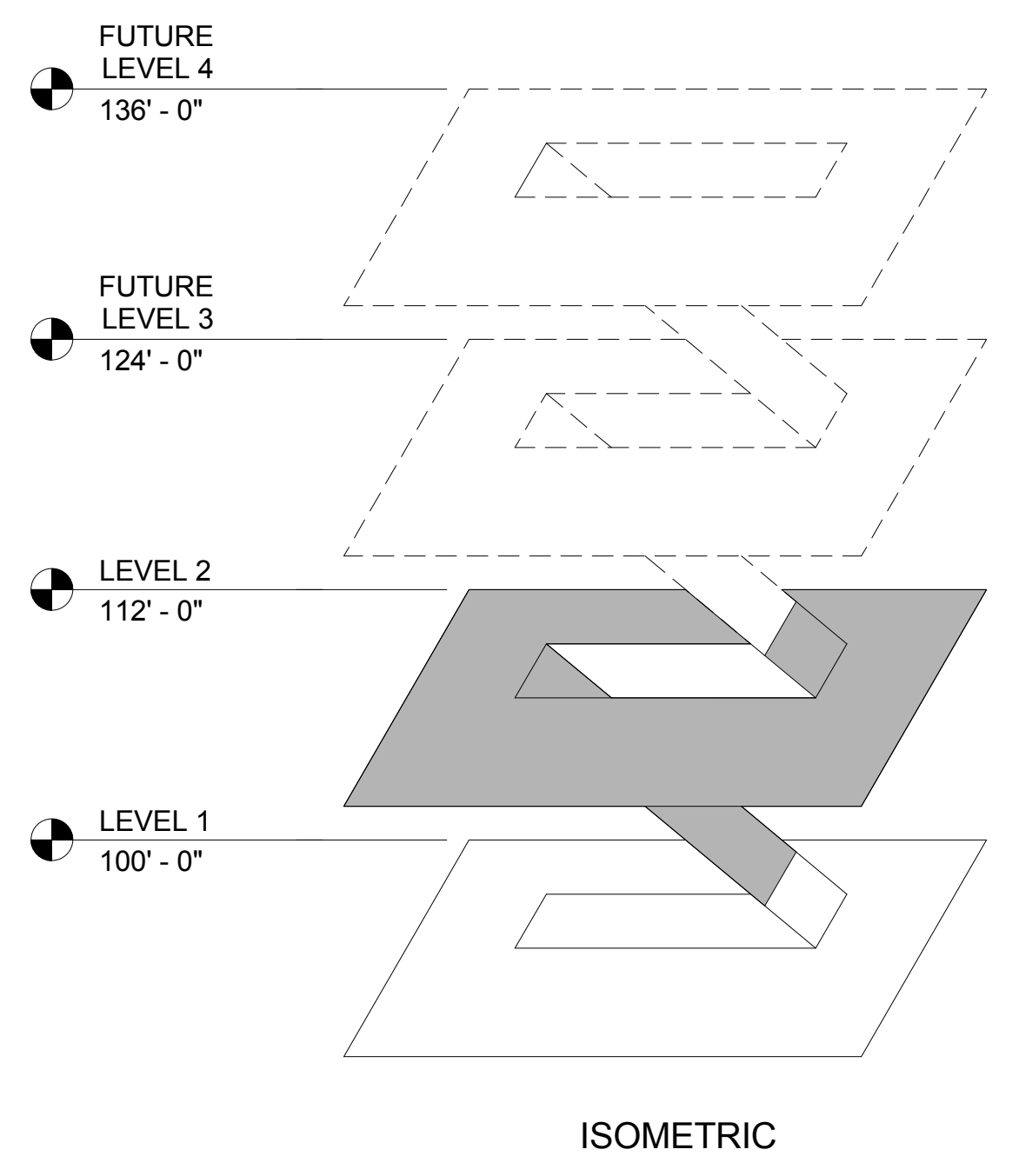


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one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot



MILD STEEL REINFORCEMENT SCHEDULE		
BOTTOM BARS		
MARK	REINFORCEMENT	REMARK
B1	#4 x 6'-8" @ 18" OC	STAGGER 1'-0"
B2	#4 x 12'-0" @ 10" OC	STAGGER 1'-0"
B3	#4 x 5'-0" @ 18" OC	STAGGER 1'-0"
DIAPHRAGM BARS		
MARK	REINFORCEMENT	REMARK
X1	(4) - #6 CONT	LOCATE MID-DEPTH, WITHIN 3'-0" OF EDGE OF SLAB
X2	(5) - #6 CONT	LOCATE MID-DEPTH, WITHIN 3'-0" OF EDGE OF SLAB
X3	(2) - #4 CONT	LOCATE MID-DEPTH, WITHIN 3'-0" OF EDGE OF SLAB
X4	(3) - #6 x 10'-0"	LOCATE MID-DEPTH, WITHIN 3'-0" OF EDGE OF SLAB
X5	(3) - #6 CONT	LOCATE MID-DEPTH, WITHIN 3'-0" OF EDGE OF SLAB
X6	(1) - #4 CONT	LOCATE MID-DEPTH, WITHIN 3'-0" OF EDGE OF SLAB
TOP BARS		
MARK	REINFORCEMENT	REMARK
T1	#4 x 10'-0" @ 18" OC	STAGGER 1'-0"
T2	#4 x 10'-0" @ 10" OC	STAGGER 1'-0"
T3	#4 x 7'-0" @ 5'-0" @ 10" OC	
T4	#4 x 5'-0" @ 5'-0" @ 18" OC	
T5	#4 x 3'-6" @ 18" OC	
T6	#4 x 8'-0" @ 10" OC	
T7	#4 x 13'-0" @ 12" OC	
T8	#4 x 6'-0" @ 18" OC	STAGGER 1'-0"
SEE "TYPICAL POST-TENSIONED SLAB DETAIL" FOR PLACEMENT INFORMATION		

- 1** **LEVEL 2 - PT / REINFORCING PLAN**  
3/32" = 1'-0"
- NOTES:
- SEE S202 FOR BEAM CALLOUTS, ELEVATIONS AND MORE INFORMATION.
  - T# / B# INDICATES MILD STEEL REINFORCING SEE ABOVE FOR SCHEDULE.
  - CENTER OF GRAVITY OF SLAB MAIN TENDONS IS AS FOLLOWS:
    - 2 1/2" (5" SLAB), 5" (10" SLAB) AT ANCHORAGE (DEAD AND STRESSING ENDS)
    - 2 1/2" (5" SLAB), 7 1/4" (10" SLAB) AT SUPPORTS
    - 1 1/2" AT MID-SPAN (5" AND 10" SLAB)
  - PROVIDE EPOXY-COATED REINFORCING FOR THE FOLLOWING LOCATIONS:
    - COLUMNS - TIES WITHIN BEAM DEPTH AT ALL PERIMETER AND RAMP COLUMNS
    - POST-TENSIONED SLABS - TOP AND BOTTOM BARS, SUPPORT BARS AND BACKUP BARS
    - BEAMS - BEAM TOP REINFORCEMENT AND STIRRUPS
    - UPTURNED BEAMS - BEAM BOTTOM REINFORCEMENT AND STIRRUPS
  - Fe = EFFECTIVE FORCE
  - LOCATE REINFORCING AT MID-DEPTH OF SLAB, PLACE WITHIN 3'-0" WIDTH AT EDGE OF SLAB.
  - LOCATE REINFORCING AT MID-DEPTH OF SLAB, PLACE WITHIN 3'-0" WIDTH CENTERED ON GRID.
  - ALL PT SHALL BE ENCAPSULATED.



1 ADDENDUM #1

Revisions:

4/10/2014

Date

Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501

PROJECT LEADER/ARCHITECT:

2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
317.800.6388 WWW.GUIDONDESIGN.COM  
SUSTAINABLE ARCHITECTURE + ENGINEERING

ADDENDUM #1 FOR CONSTRUCTION

Drawing Title  
LEVEL 2 - PT / REINFORCING PLAN

Approved for Design Concept:  
John Bartman  
John.Bartman@va.gov  
970-263-5016

Project Title  
PARKING GARAGE

Location  
Grand Junction VA MC

Date  
4/10/2014

Checked By:  
JAP

Drawn By:  
BGC

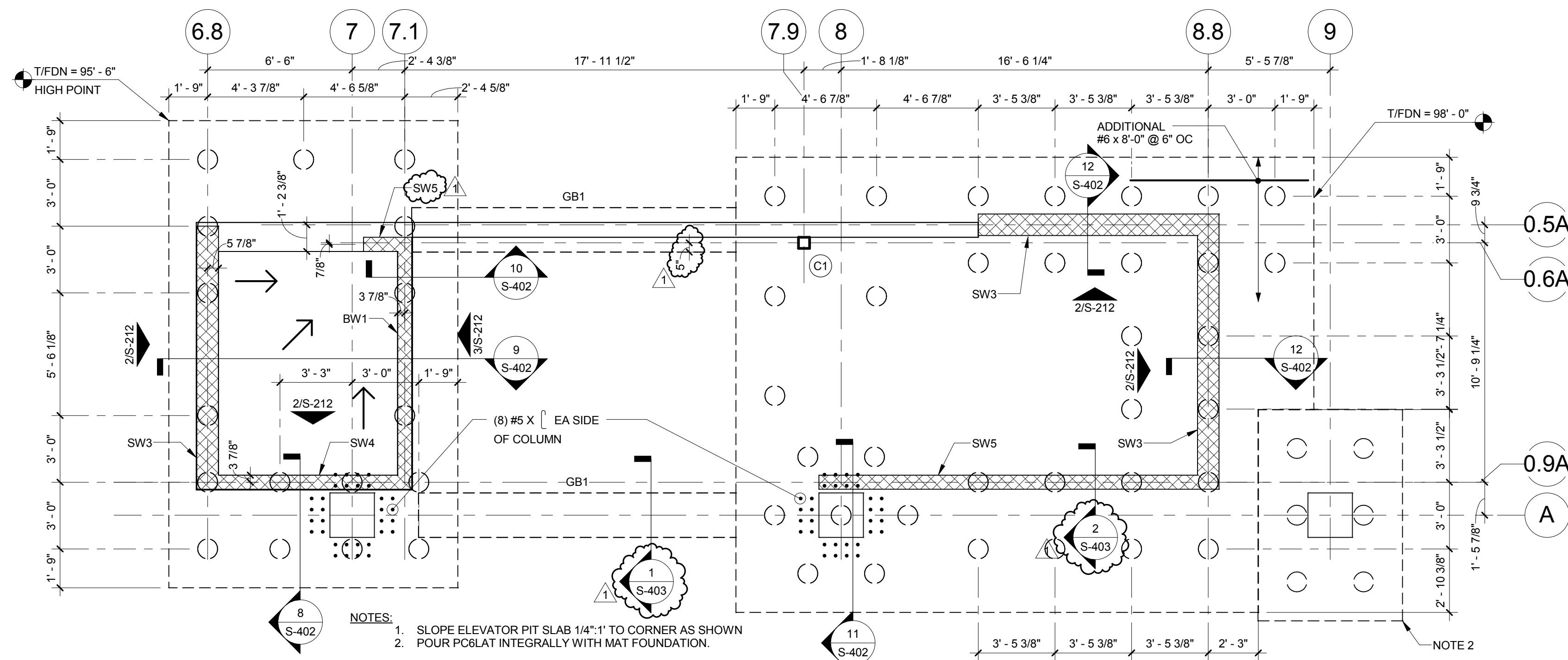
Project Number  
12.1042  
Building Number  
Bldg - 39

Drawing Number  
S-202A

VA Project Number  
575-206

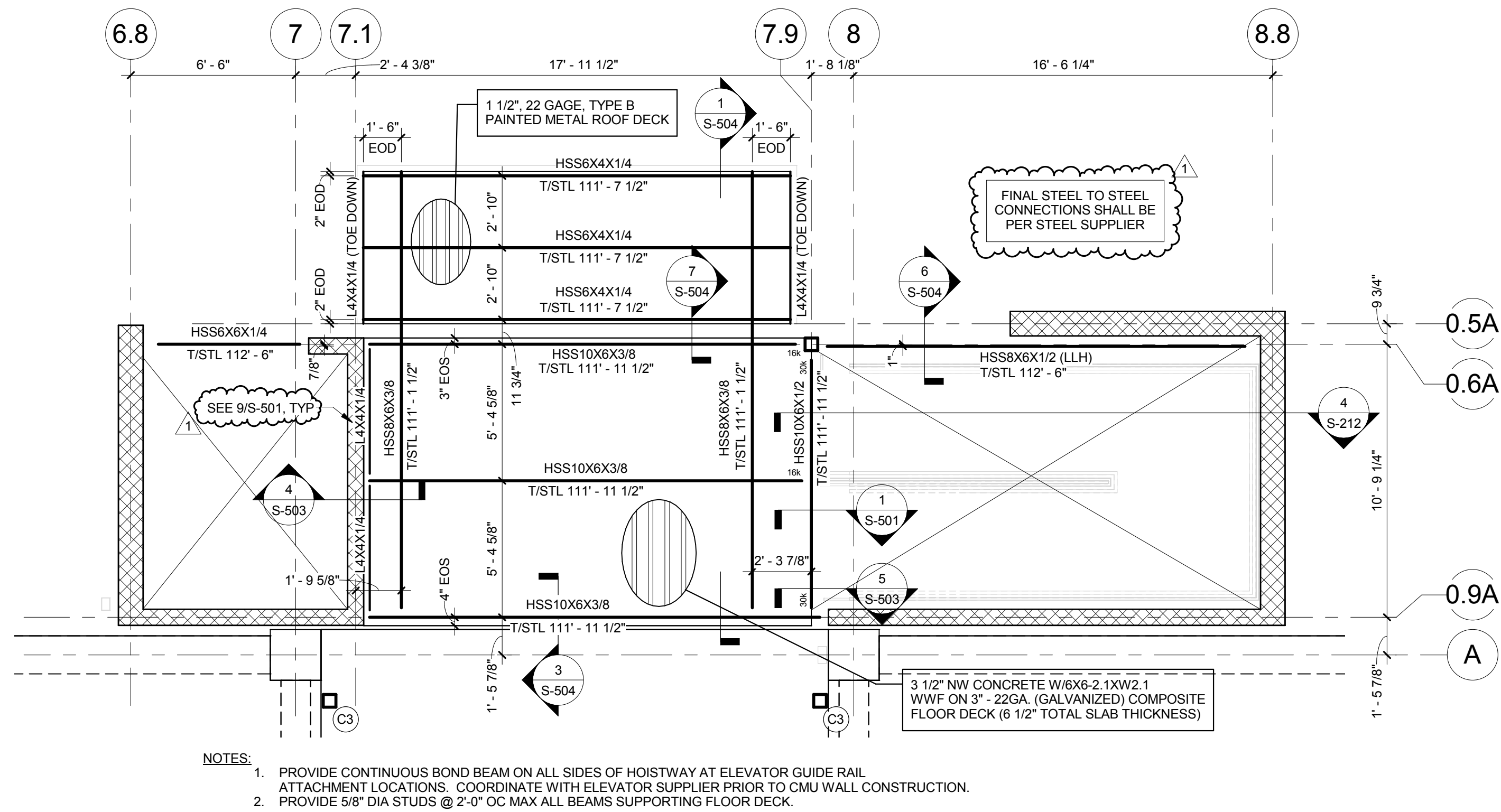
Department of  
Veterans Affairs

OFFICE OF FACILITIES MANAGEMENT



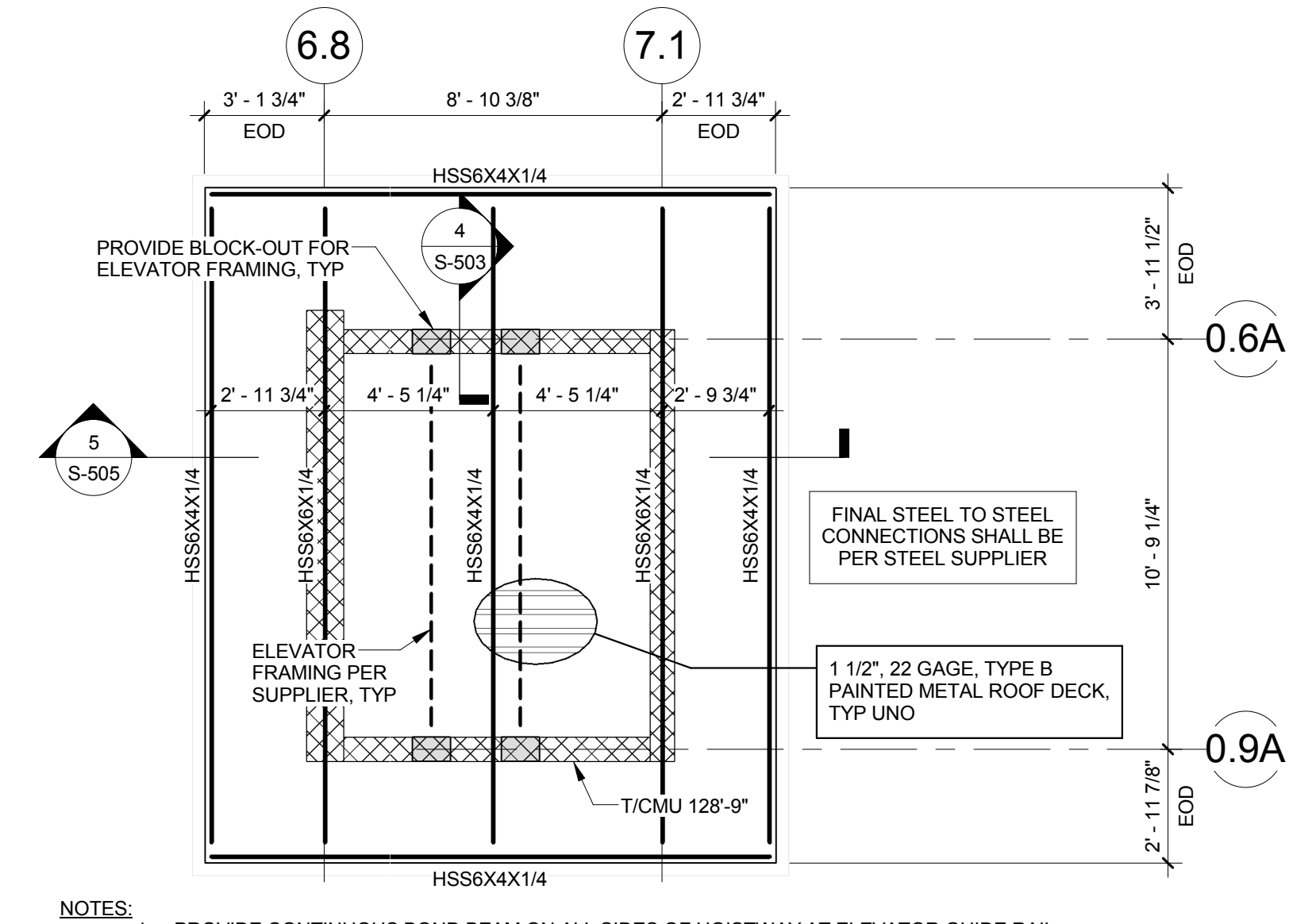
1  
S-210 1/4" = 1'-0"

**ENLARGED WEST STAIR TOWER FOUNDATION PLAN**



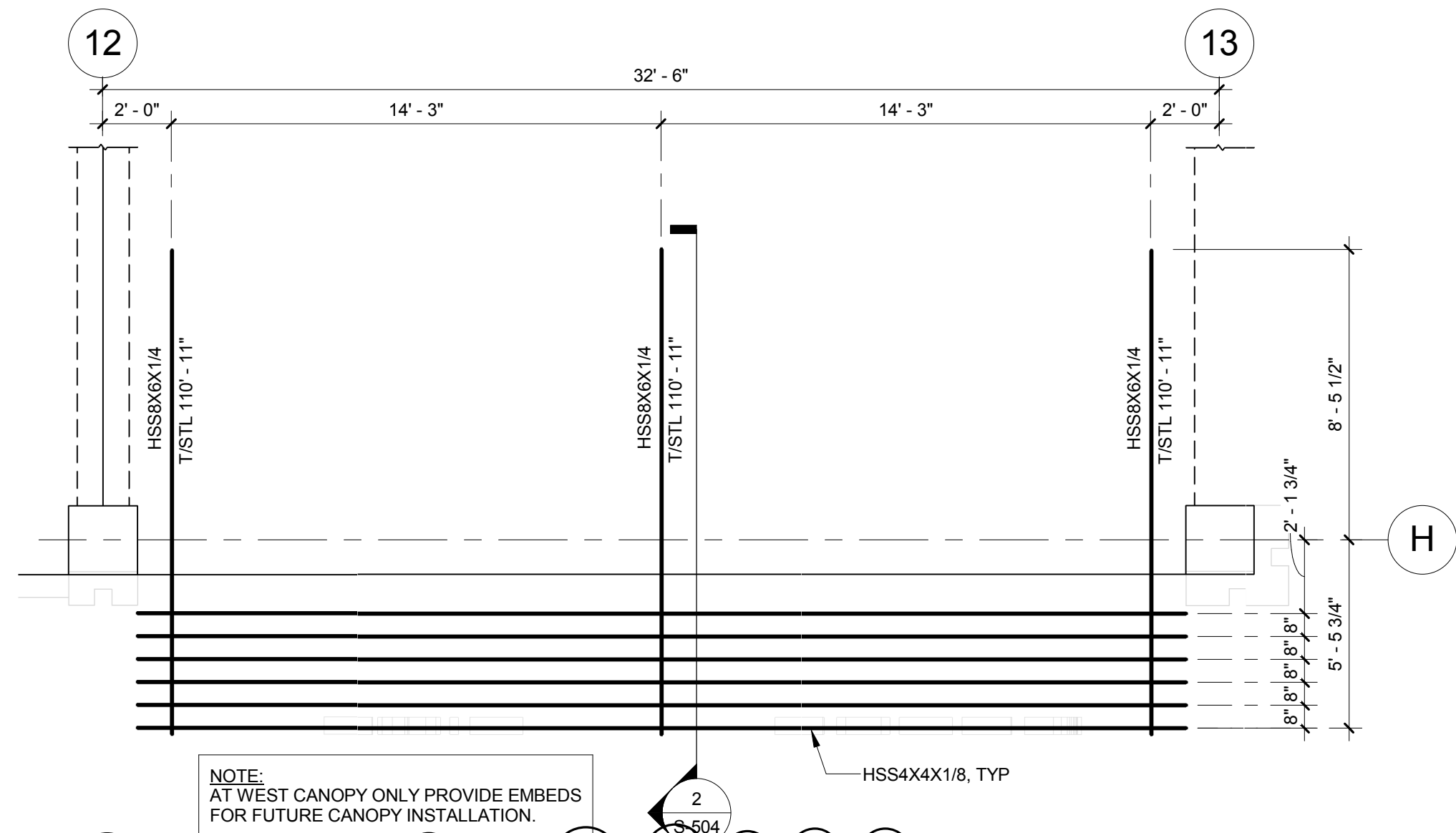
3  
S-210 1/4" = 1'-0"

**ENLARGED WEST STAIR TOWER SECOND FLOOR FRAMING**



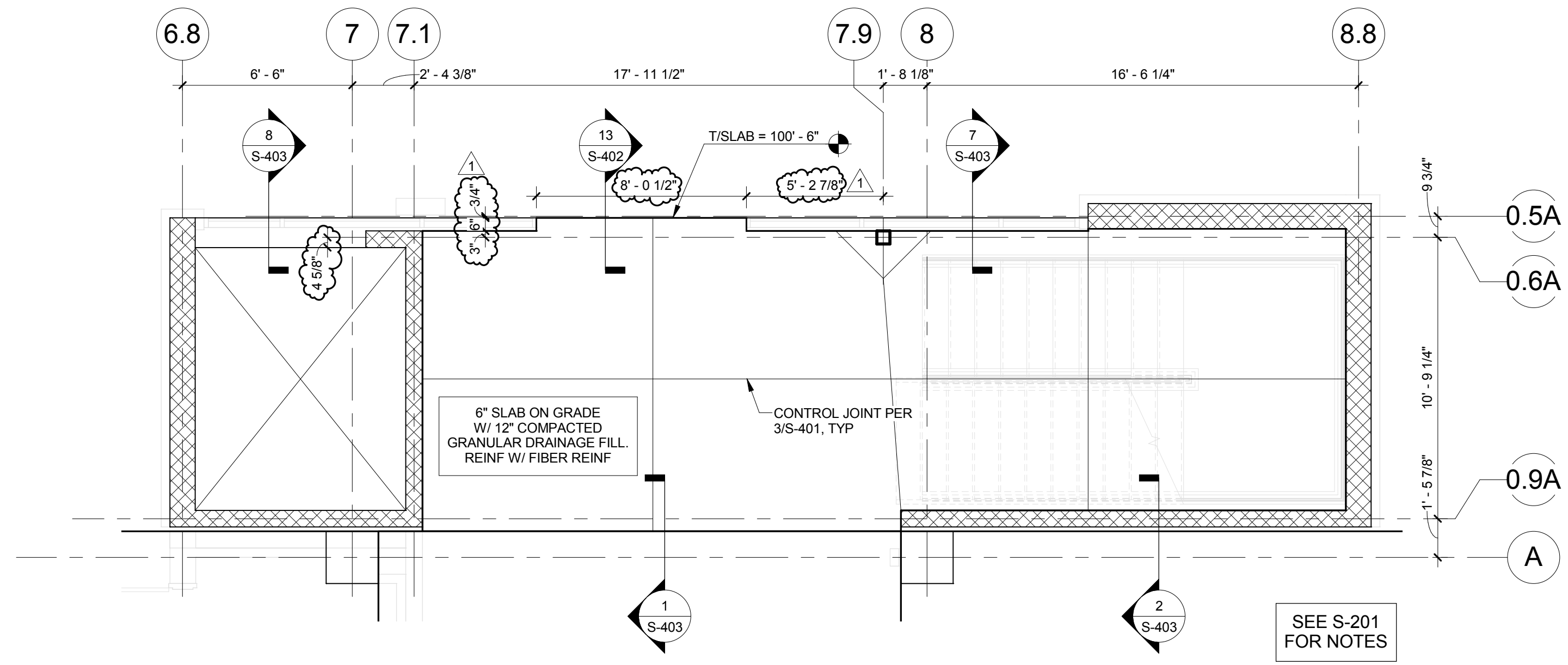
5  
S-210 1/4" = 1'-0"

**ENLARGED WEST STAIR TOWER HIGH ROOF FRAMING PLAN**



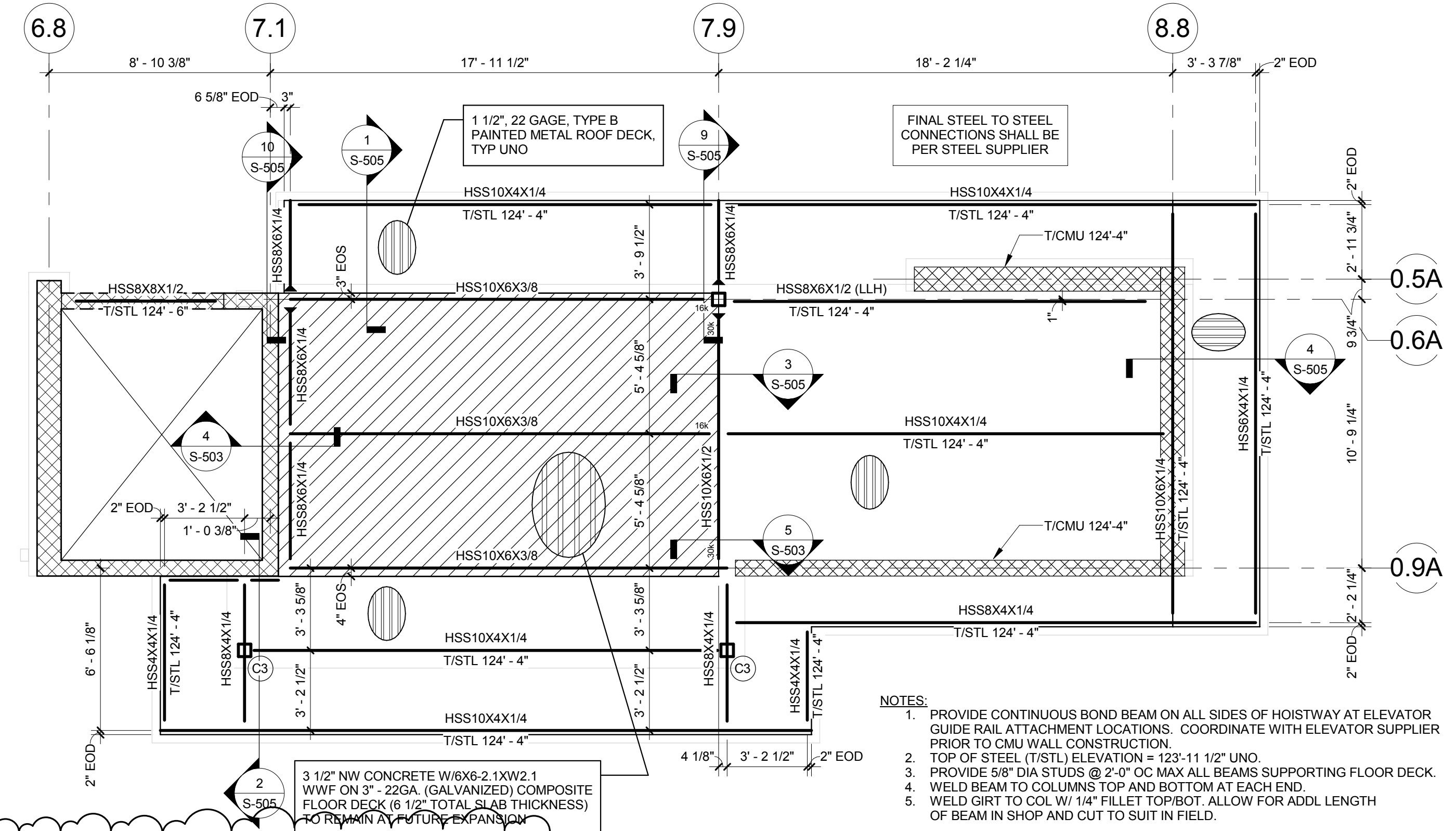
6  
S-210 1/4" = 1'-0"

**ENLARGED ENTRANCE / EXIT CANOPY FRAMING**



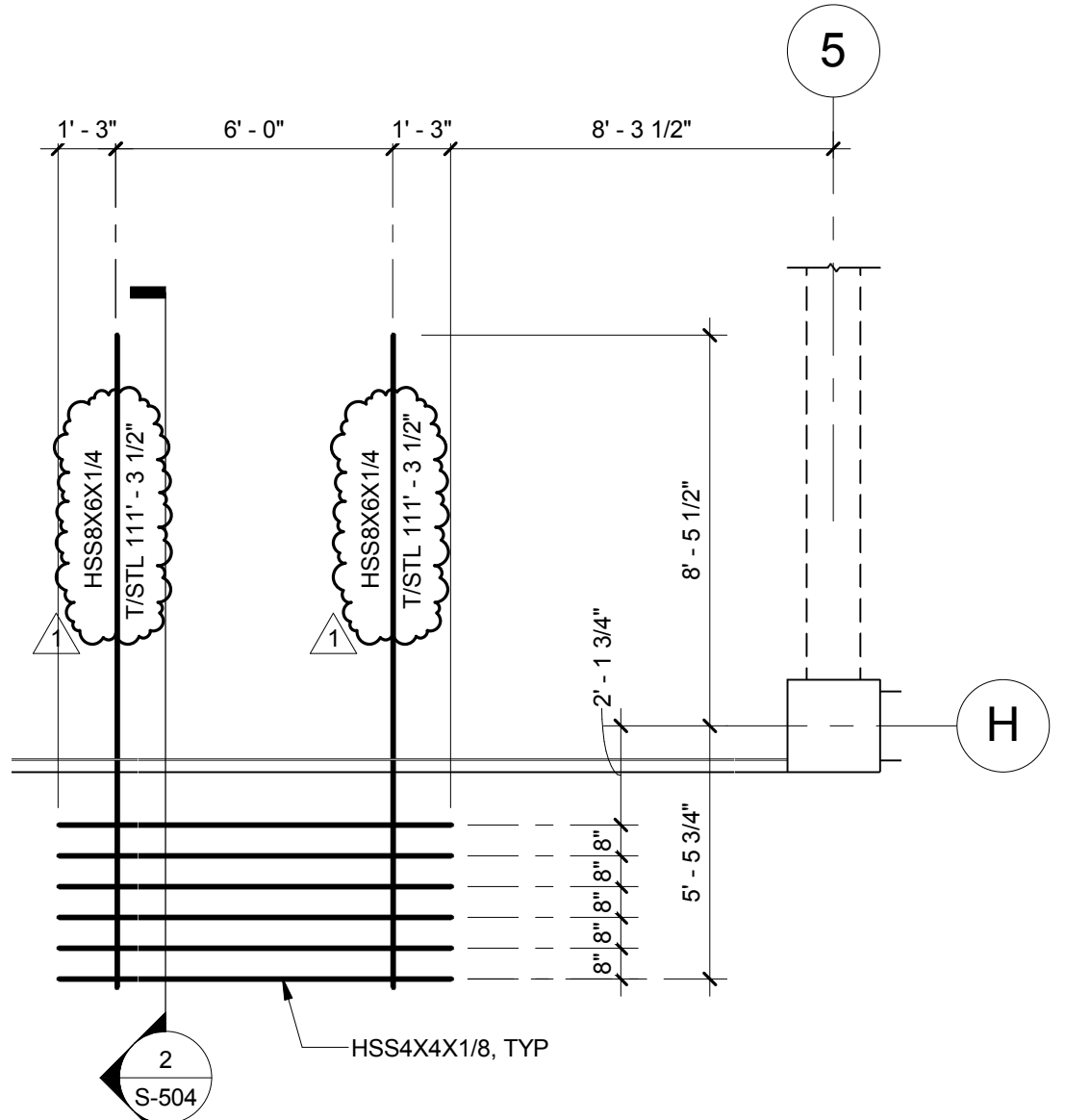
2  
S-210 1/4" = 1'-0"

**ENLARGED WEST STAIR TOWER SLAB ON GRADE**



4  
S-210 1/4" = 1'-0"

**ENLARGED WEST STAIR TOWER ROOF FRAMING PLAN**



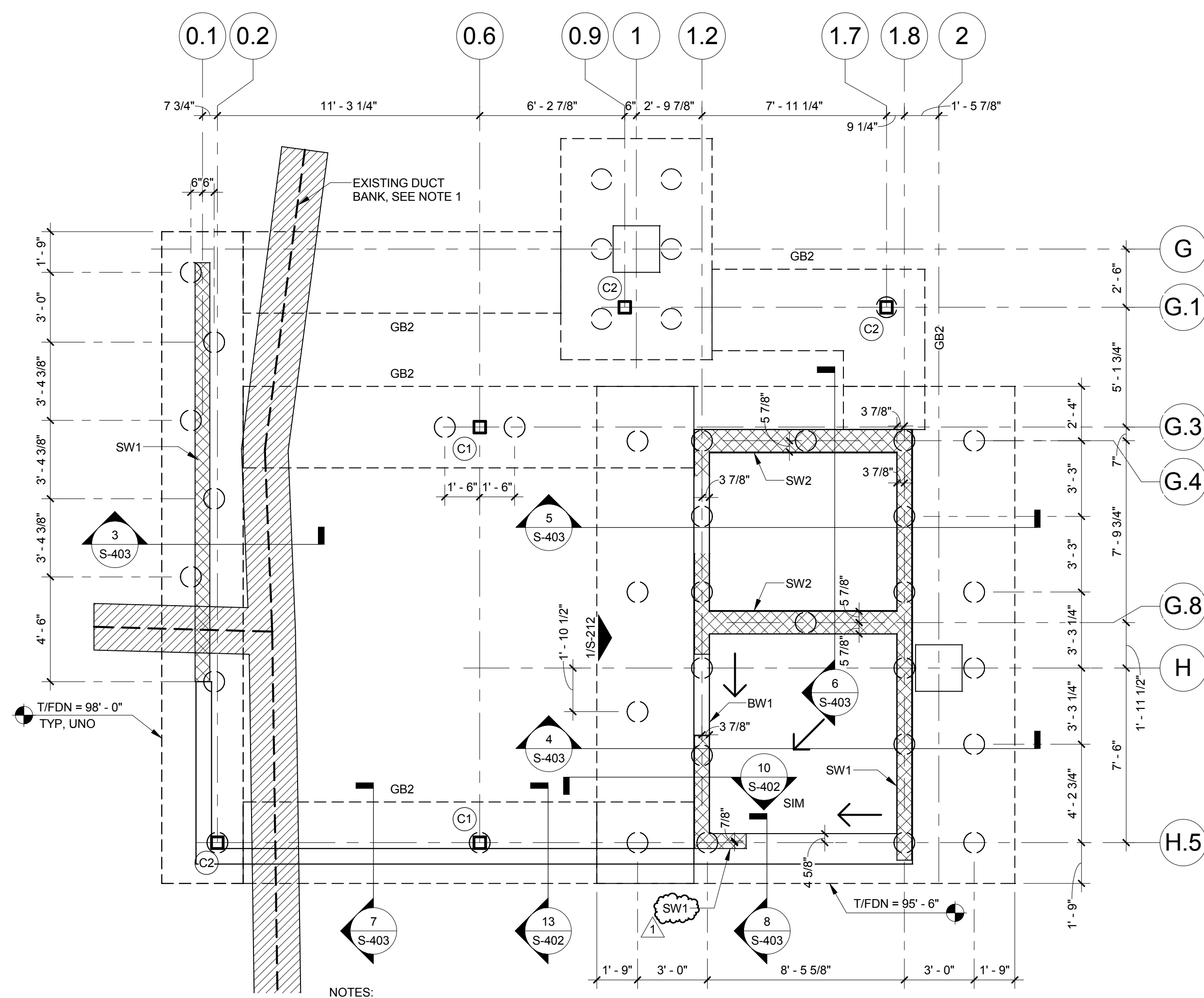
7  
S-210 1/4" = 1'-0"

**ENLARGED PEDESTRIAN CANOPY FRAMING**

**ADDENDUM #1 FOR CONSTRUCTION**

<p>1 ADDENDUM #1</p> <p>Revisions:</p> <p>4/10/2014</p> <p>Date</p>	<p>Grand Junction VA Medical Center</p> <p>2121 North Avenue</p> <p>Grand Junction, CO 81501</p>	<p>COLORADO LICENSED PROFESSIONAL ENGINEER</p> <p>39624</p> <p>APR 27-13</p>	<p>APOGEE Consulting Group, PA</p> <p>CooverClark</p> <p>AMERICAN STRUCTUREPOINT INC.</p>	<p>PROJECT LEADER/ARCHITECT:</p> <p><b>GUIDON DESIGN</b></p> <p>2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205</p> <p>317.800.6388 WWW.GUIDONDESIGN.COM</p> <p>SUSTAINABLE ARCHITECTURE + ENGINEERING</p>	<p>Drawing Title</p> <p>ENLARGED PLANS</p> <p>Approved for Design Concept:</p> <p>John Bartman</p> <p>John.Bartman@va.gov</p> <p>970-263-5016</p>	<p>Project Title</p> <p>PARKING GARAGE</p> <p>Location</p> <p>Grand Junction VA MC</p> <p>Date</p> <p>4/10/2014</p> <p>Checked By:</p> <p>JAP</p> <p>Drawn By:</p> <p>BGC</p>	<p>Project Number</p> <p>12.1042</p> <p>Building Number</p> <p>Bldg-39</p> <p>Drawing Number</p> <p>S-210</p>	<p>OFFICE OF FACILITIES MANAGEMENT</p> <p>VA Project Number</p> <p>575-206</p> <p>Department of Veterans Affairs</p>
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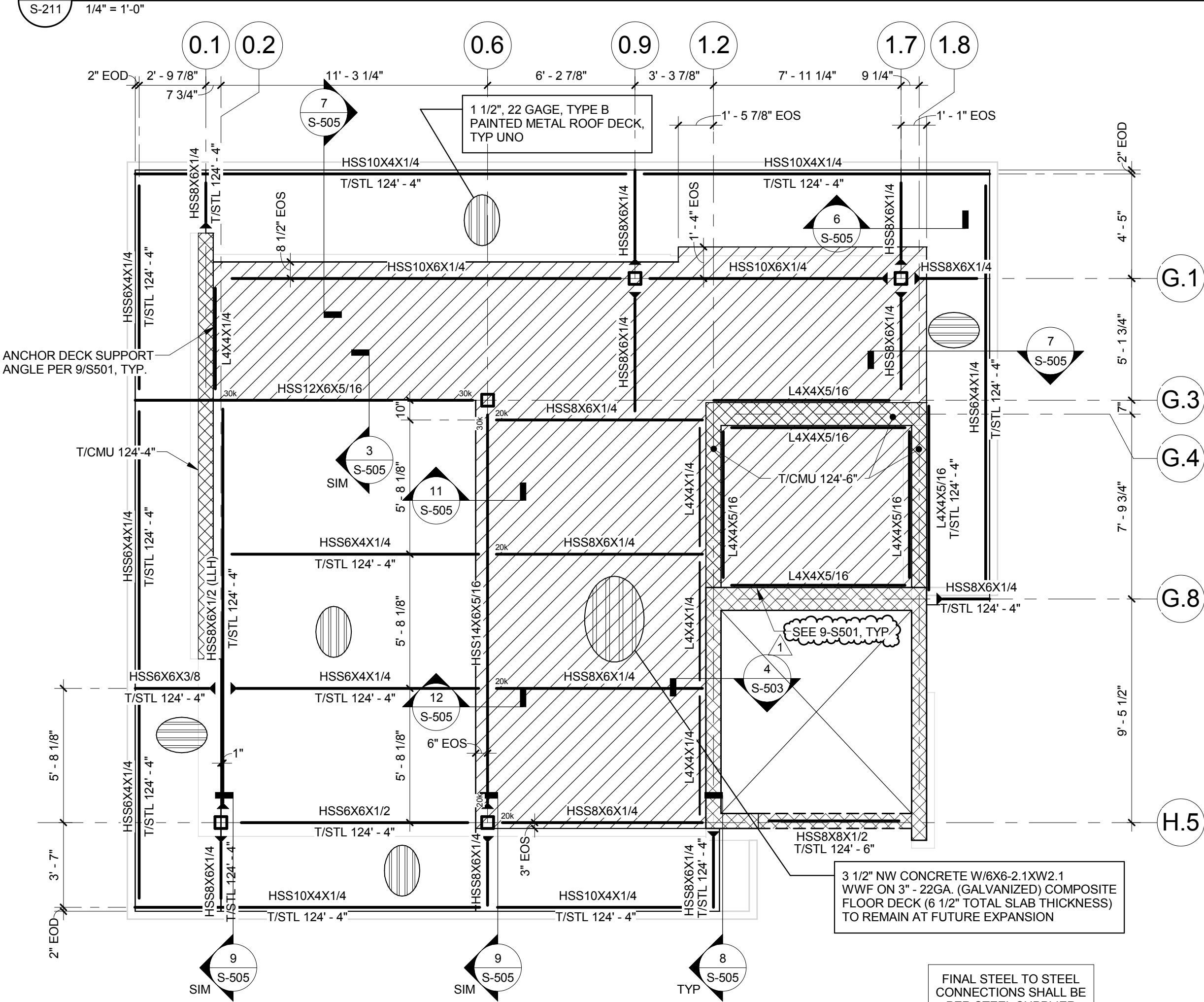




**NOTES:**

1. VERIFY LOCATION OF DUCT BANK, NOTIFY ENGINEER IF CONFLICT EXISTS
2. SLOPE ELEVATOR PIT SLAB 1/4":1'-0" TO CORNER AS SHOWN

**1 ENLARGED SOUTHEAST STAIR TOWER FOUNDATION PLAN**

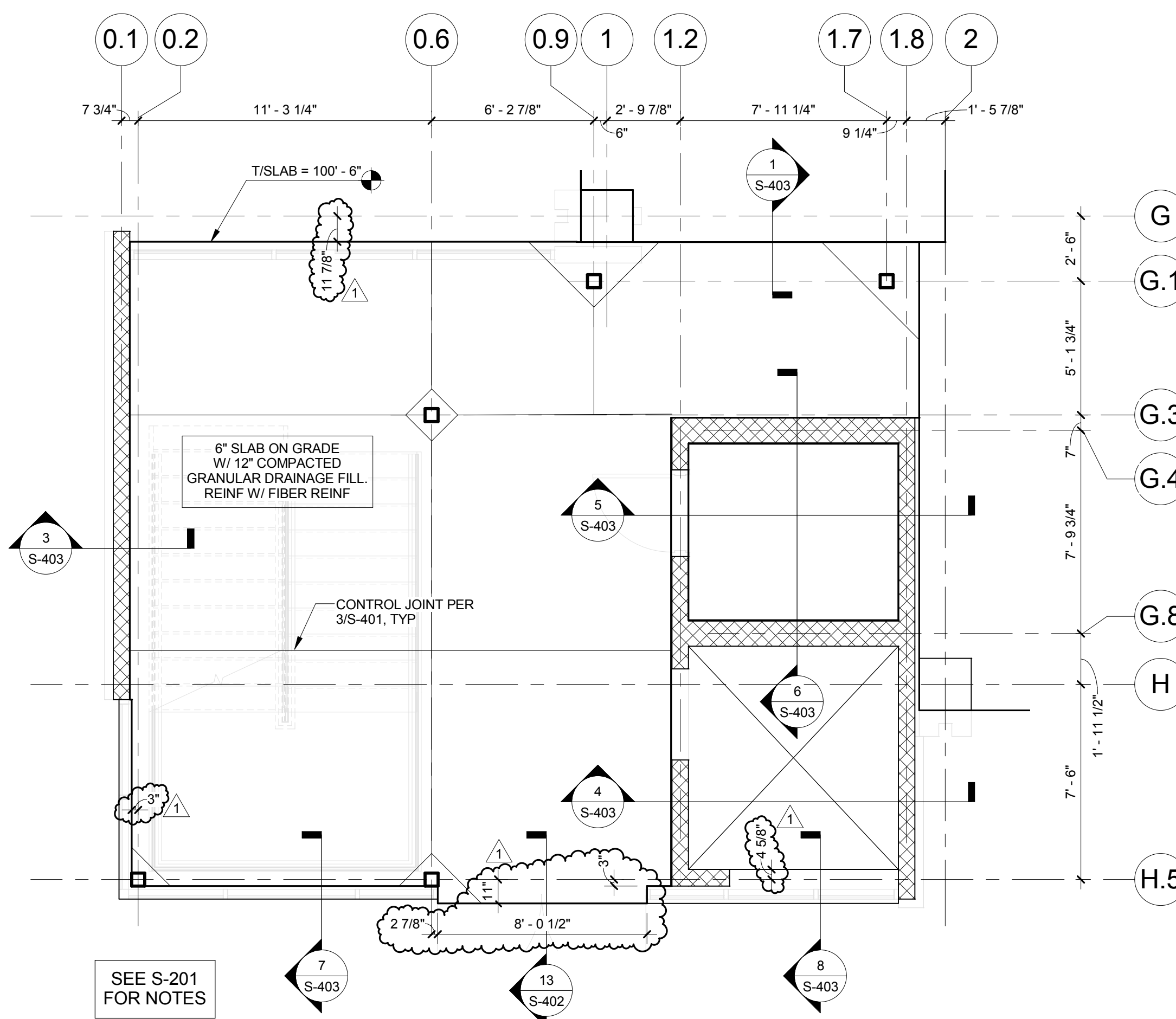


**NOTES:**

1. PROVIDE CONTINUOUS BOND BEAM ON ALL SIDES OF HOISTWAY AT ELEVATOR GUIDE RAIL ATTACHMENT LOCATIONS. COORDINATE WITH ELEVATOR SUPPLIER PRIOR TO CMU WALL CONSTRUCTION
2. TOP OF STEEL (I/STL) ELEVATION = 123'-11 1/2" UNO

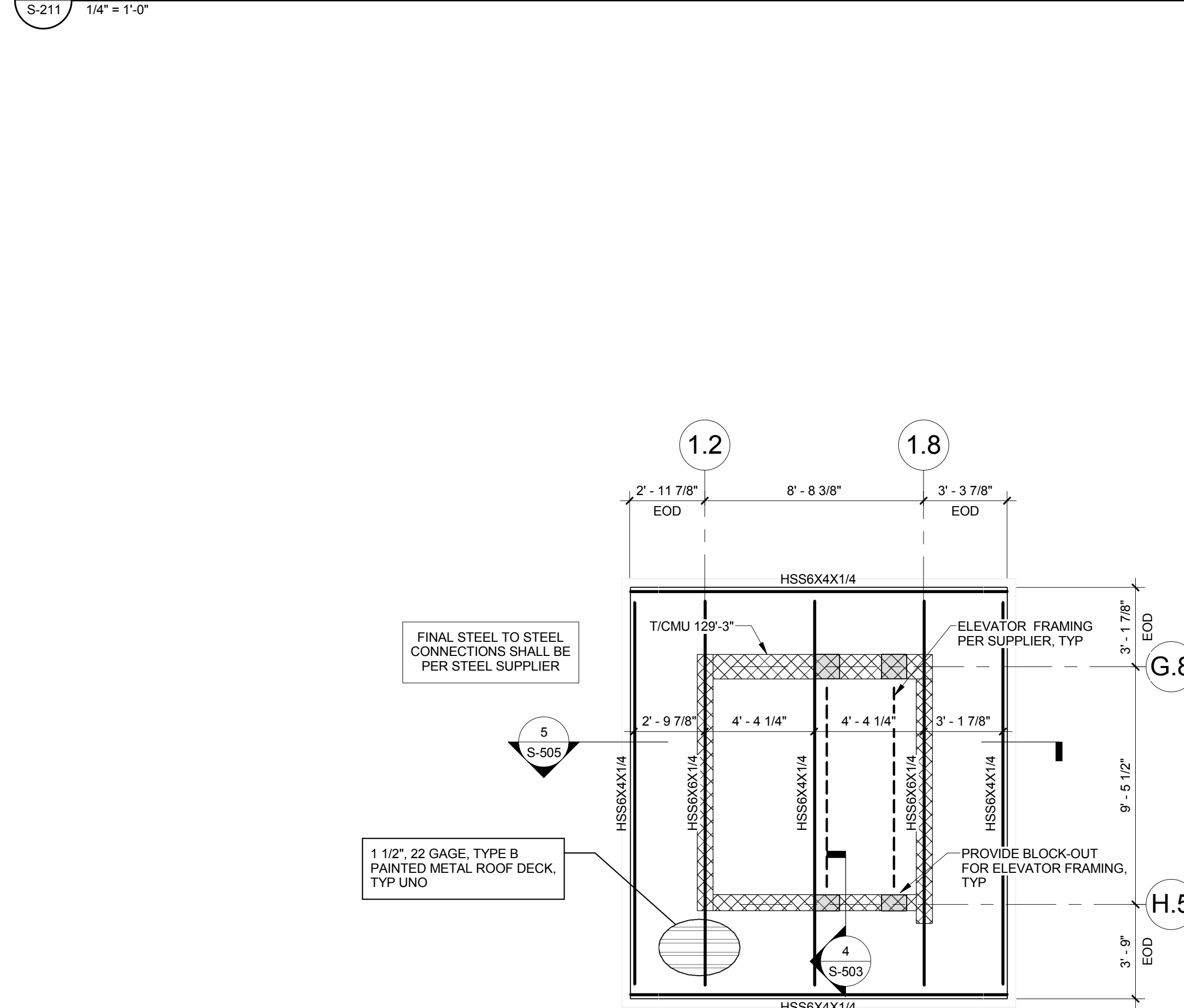
PROVIDE 6" DIA STUDS @ 2'-0" O.C. WITH ALL BARS SUPPORTING FLOOR DECK

4 ENLARGED SOUTHEAST STAIR TOWER ROOF FRAMING PLAN



SEE S-201  
FOR NOTES

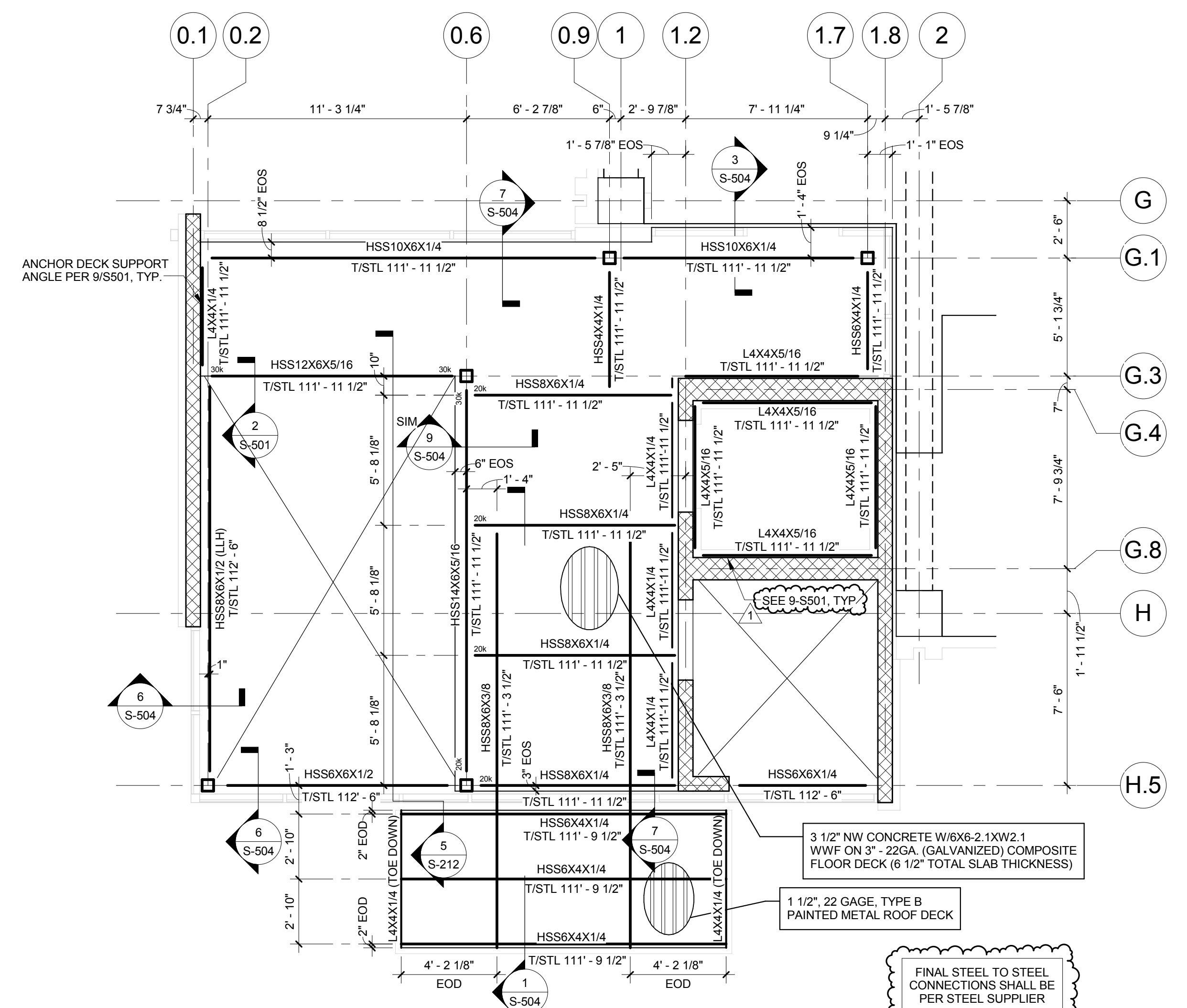
2 ENLARGED SOUTHEAST STAIR TOWER SLAB ON GRADE



**NOTES:**

1. PROVIDE CONTINUOUS BOND BEAM ON ALL SIDES OF HOISTWAY AT ELEVATOR GUIDE RAIL ATTACHMENT LOCATIONS. COORDINATE WITH ELEVATOR SUPPLIER PRIOR TO CMU WALL CONSTRUCTION.
2. TOP OF STEEL (T/STL) ELEVATION = 129'-3" UNO.
3. ELEVATOR OVERHEAD CARRIAGE IS SUPPORTED BY CMU WALLS AND PERIMETER BEAM WITH THYSSEN KRUP SYNERGY 300R DUPLEX O.H. ELEVATOR AS BASIS OF DESIGN. IF ALTERNATE ELEVATOR IS CHOSEN CONTRACTOR TO INCLUDE W10X12 HOIST BEAM IN BID OR AS REQUIRED BY ELEVATOR MANUFACTURER.

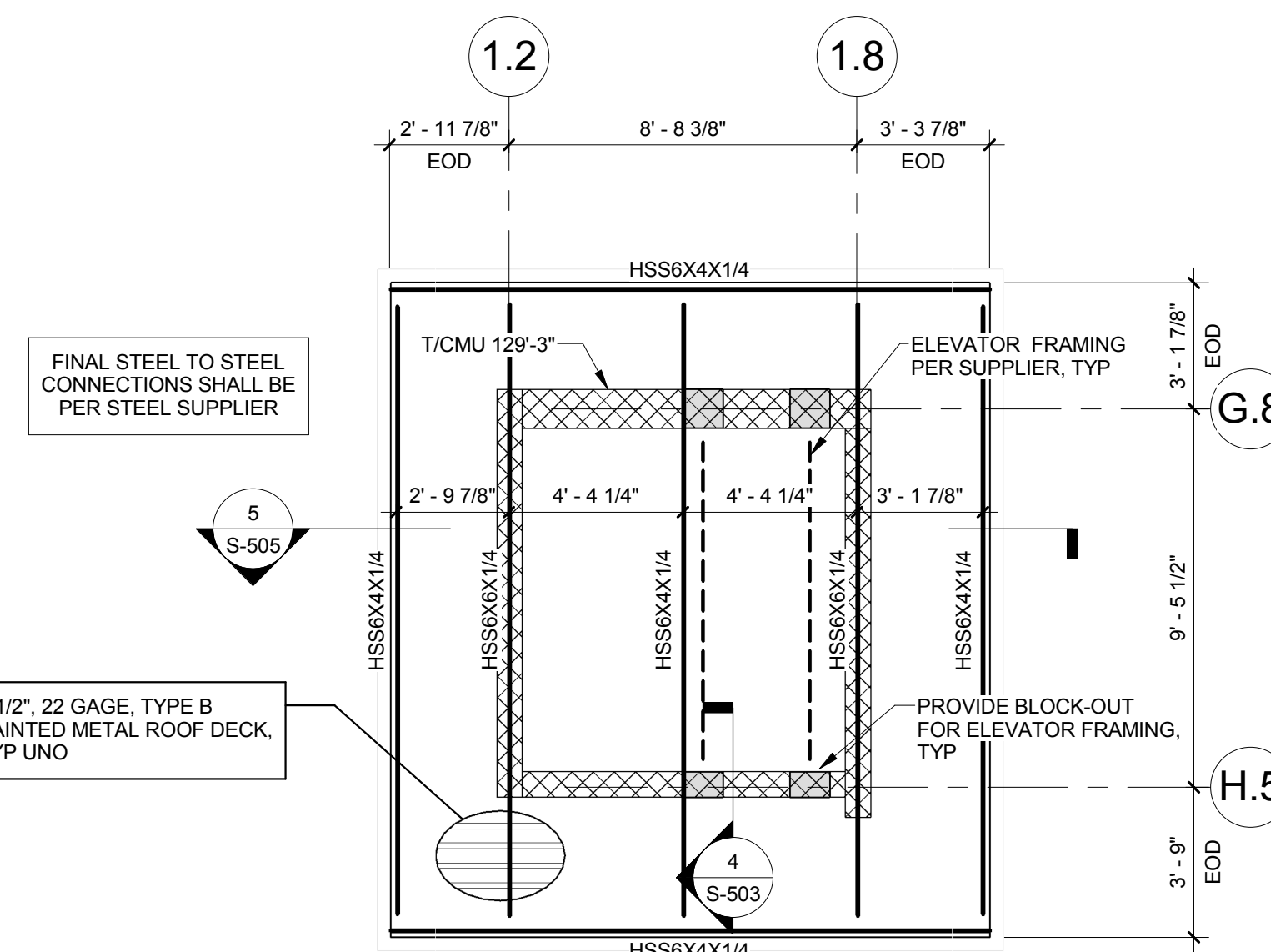
5 ENLARGED SOUTHEAST STAIR TOWER HIGH ROOF FRAMING PLAN



**NOTES:**

1. PROVIDE CONTINUOUS BOND BEAM ON ALL SIDES OF HOISTWAY AT ELEVATOR GUIDE RAIL ATTACHMENT LOCATIONS. COORDINATE WITH ELEVATOR SUPPLIER PRIOR TO CMU WALL CONSTRUCTION.
2. PROVIDE 5/8" DIA STUDS @ 2'-0" OC MAX ALL BEAMS SUPPORTING FLOOR DECK.

3 ENLARGED SOUTHEAST STAIR TOWER SECOND FLOOR FRAMING




**NOTES:**

1. PROVIDE CONTINUOUS BOND BEAM ON ALL SIDES OF HOISTWAY AT ELEVATOR GUIDE RAIL ATTACHMENT LOCATIONS. COORDINATE WITH ELEVATOR SUPPLIER PRIOR TO CMU WALL CONSTRUCTION.
2. TOP OF STEEL (T/STL) ELEVATION = 129'-3" UNO.
3. ELEVATOR OVERHEAD CARRIAGE IS SUPPORTED BY CMU WALLS AND PERIMETER BEAM WITH THYSSEN KRUP SYNERGY 300R DUPLEX O.H. ELEVATOR AS BASIS OF DESIGN. IF ALTERNATE ELEVATOR IS CHOSEN CONTRACTOR TO INCLUDE W10X12 HOIST BEAM IN BID OR AS REQUIRED BY ELEVATOR MANUFACTURER.

5 ENLARGED SOUTHEAST STAIR TOWER HIGH ROOF FRAMING PLAN

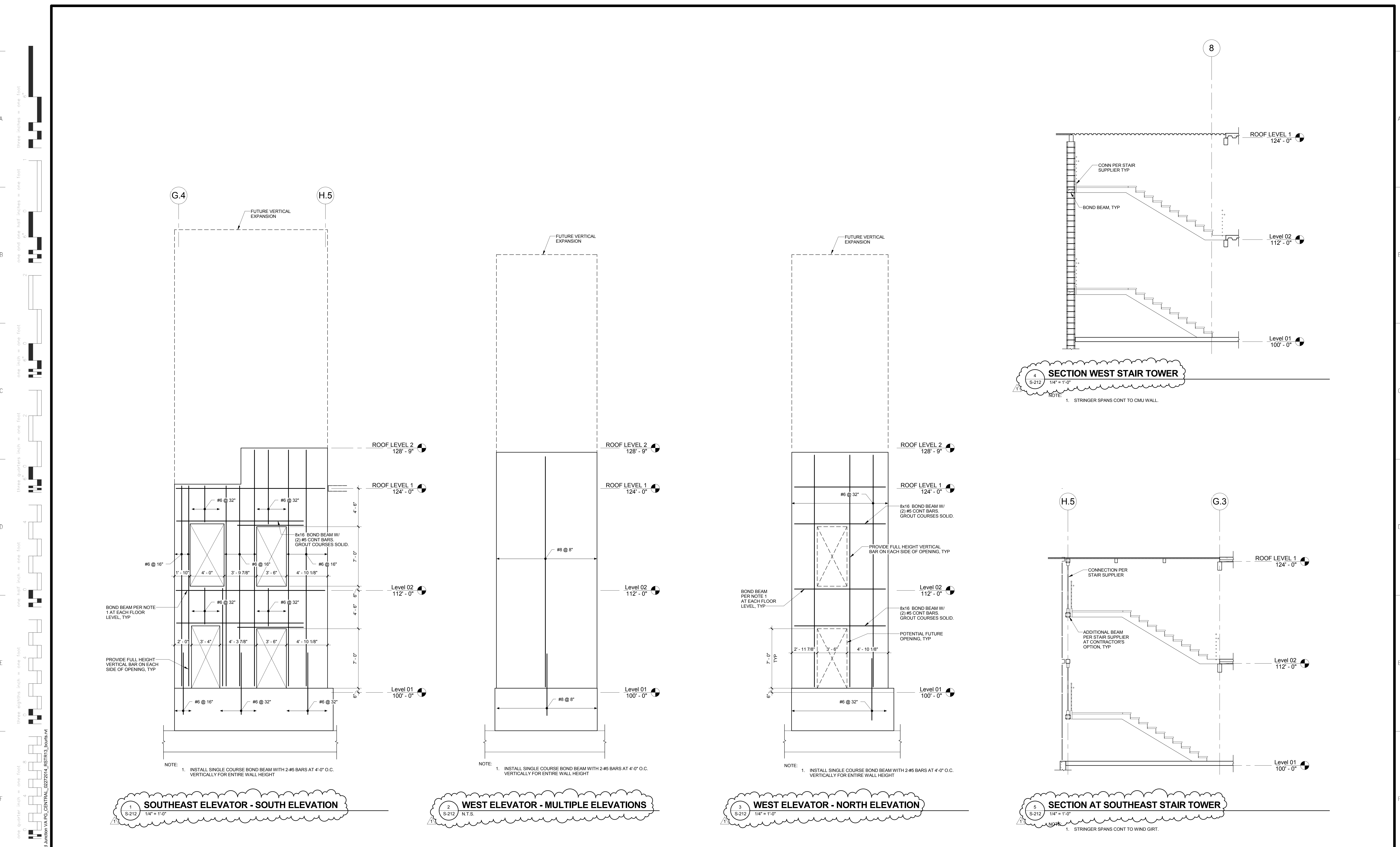
NOT USED

6 **ALTERNATE #8 - PICNIC SHELTER SLAB ON GRADE PLAN**

ADDENDUM #1 FOR CONSTRUCTION					
Drawing Title ENLARGED PLANS		Project Title  PARKING GARAGE		Project Number 12.1042	OFFICE OF FACILITIES MANAGEMENT
				Building Number Bldg-39	
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016		Location Grand Junction VA MC		Drawing Number  S-211	VA Project Number 575-206
					 Department of Veterans Affairs
		Date 4/10/2014	Checked By: JAP	Drawn By: BGC	

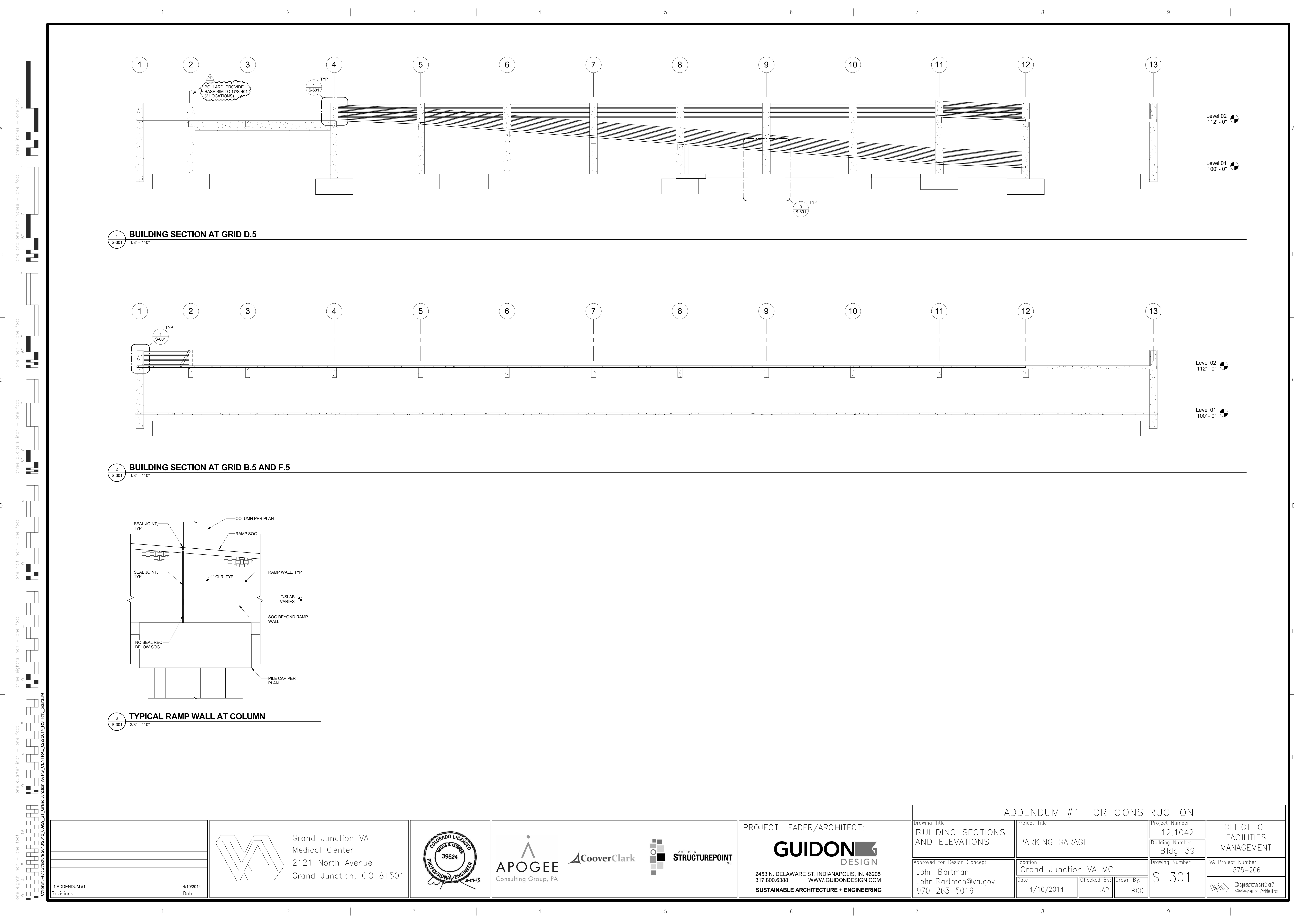
three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot

A  
B  
C  
D  
E  
F



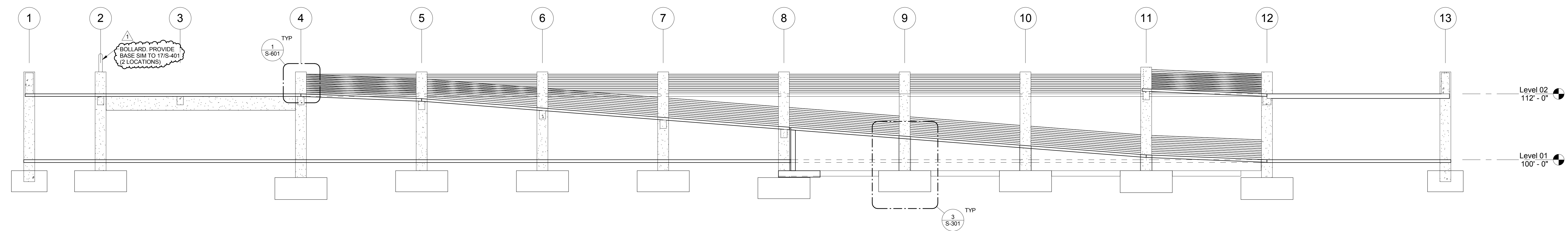
1 ADDENDUM #1 Revisions:		4/10/2014 Date		 Grand Junction VA Medical Center 2121 North Avenue Grand Junction, CO 81501		 PROFESSIONAL ENGINEER a-27-13		 APOGEE Consulting Group, PA		 CooverClark		 AMERICAN STRUCTUREPOINT INC.		PROJECT LEADER/ARCHITECT: <b>GUIDON DESIGN</b> 2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205 317.800.6388 WWW.GUIDONDESIGN.COM SUSTAINABLE ARCHITECTURE + ENGINEERING		Drawing Title ENLARGED PLANS / ELEVATIONS		Project Title PARKING GARAGE		Project Number 12.1042 Building Number Bldg -39		OFFICE OF FACILITIES MANAGEMENT	
												Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016				Location Grand Junction VA MC		Drawing Number S-212		VA Project Number 575-206			
																Date 4/10/2014		Checked By: JAP		Drawn By: BGC		 Department of Veterans Affairs	



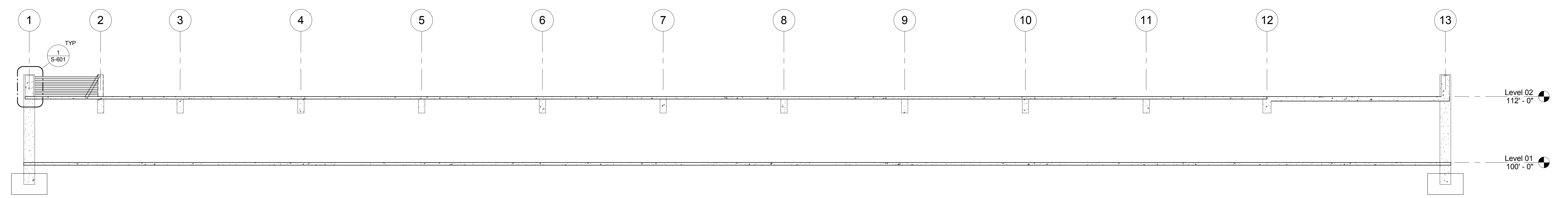


three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
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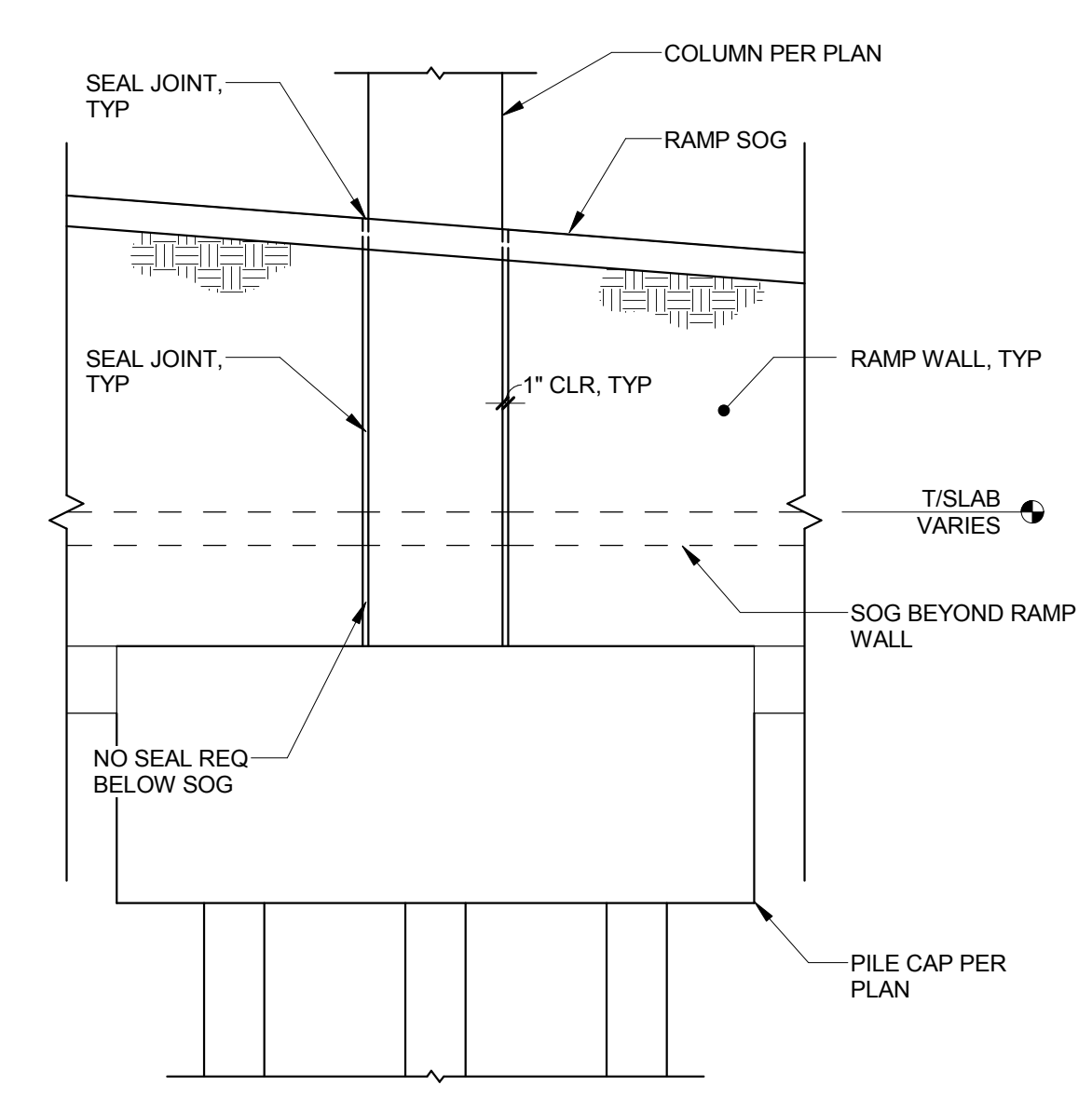
A  
B  
C  
D  
E  
F



1 BUILDING SECTION AT GRID D.5  
1/8" = 1'-0"



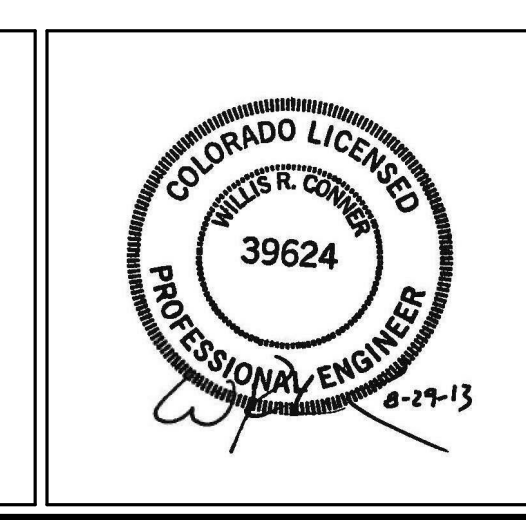
2 BUILDING SECTION AT GRID B.5 AND F.5  
1/8" = 1'-0"




3 TYPICAL RAMP WALL AT COLUMN  
3/8" = 1'-0"

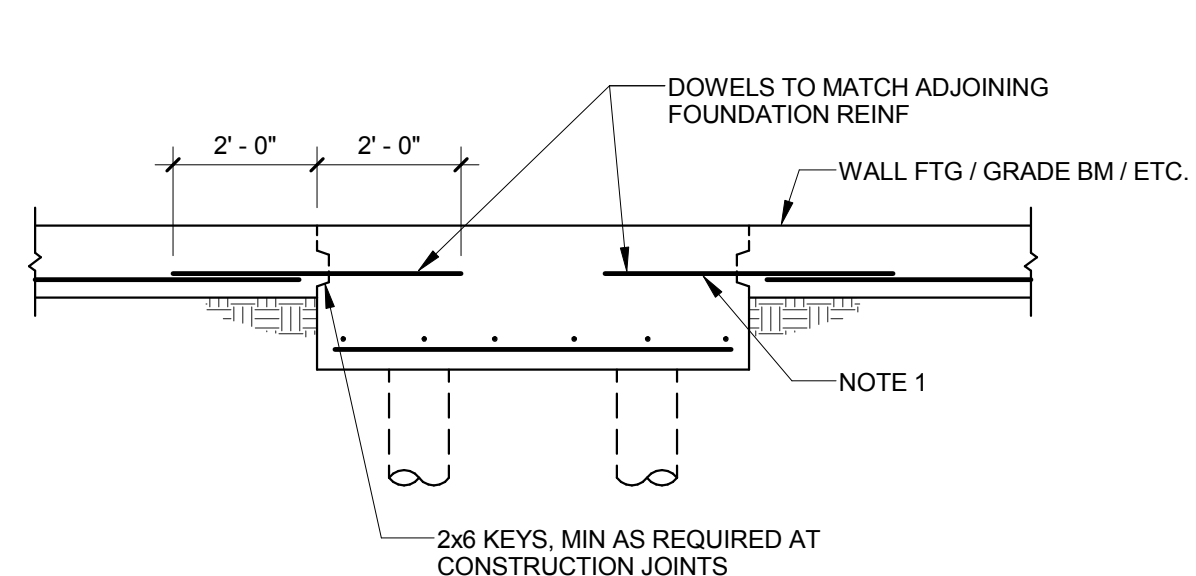
1 ADDENDUM #1	4/10/2014
Revisions:	Date

  
Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501

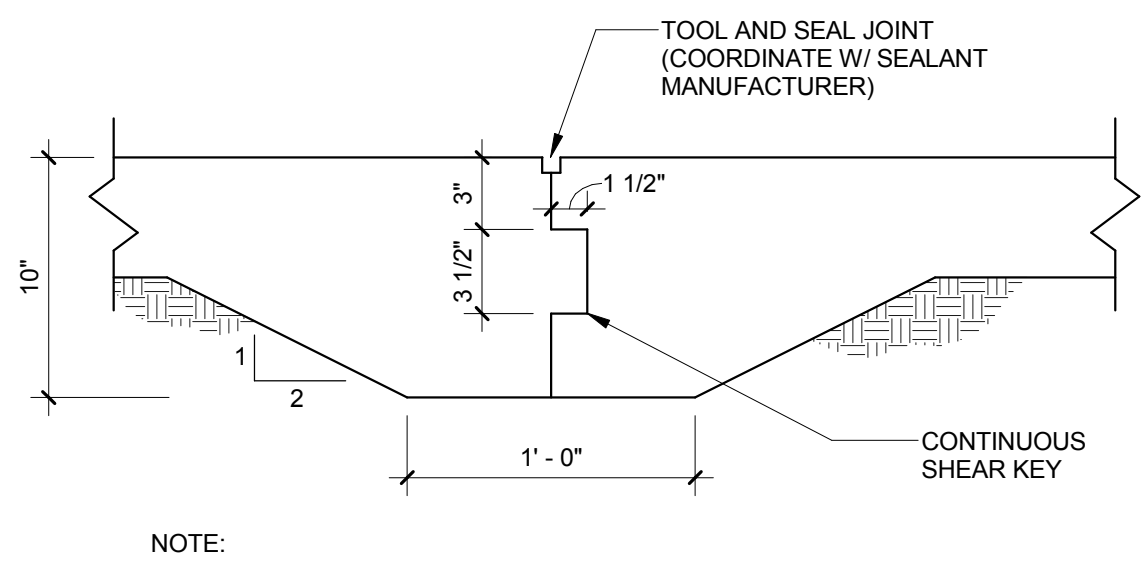


PROJECT LEADER/ARCHITECT:  
**GUIDON DESIGN**  
2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
317.800.6388 WWW.GUIDONDESIGN.COM  
SUSTAINABLE ARCHITECTURE + ENGINEERING

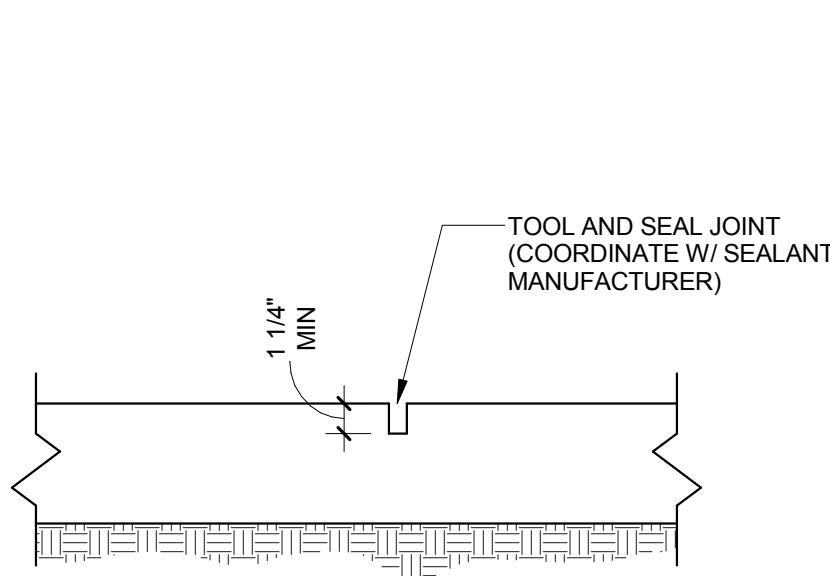
ADDENDUM #1 FOR CONSTRUCTION					
Drawing Title	Project Title		Project Number	OFFICE OF FACILITIES MANAGEMENT	
BUILDING SECTIONS AND ELEVATIONS	PARKING GARAGE		12.1042		
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location		Building Number	VA Project Number	
	Grand Junction VA MC		Bldg-39	575-206	
	Date	Checked By:	Drawn By:	 Department of Veterans Affairs	
	4/10/2014	JAP	BGC		



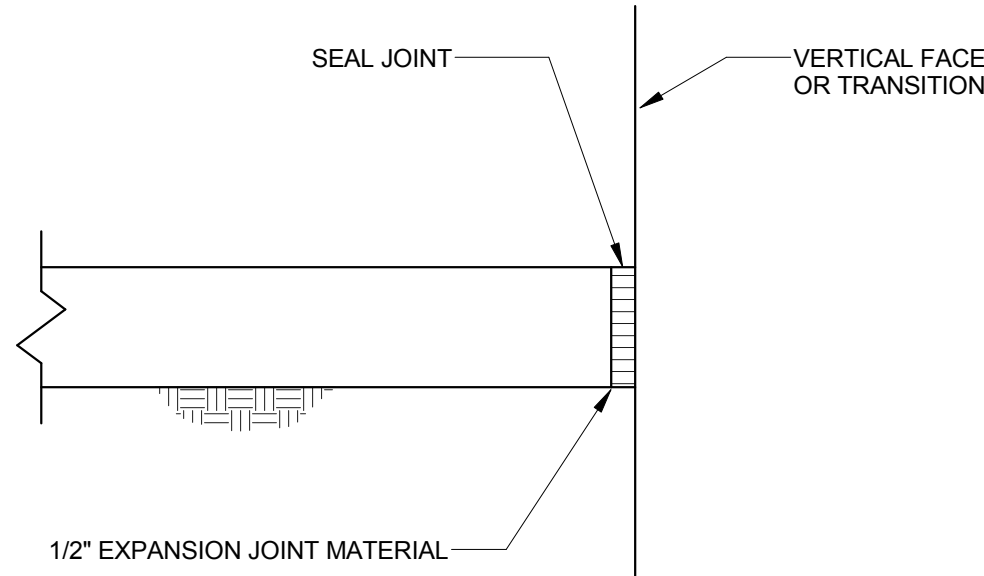
1 TYPICAL FOUNDATION INTERSECTION



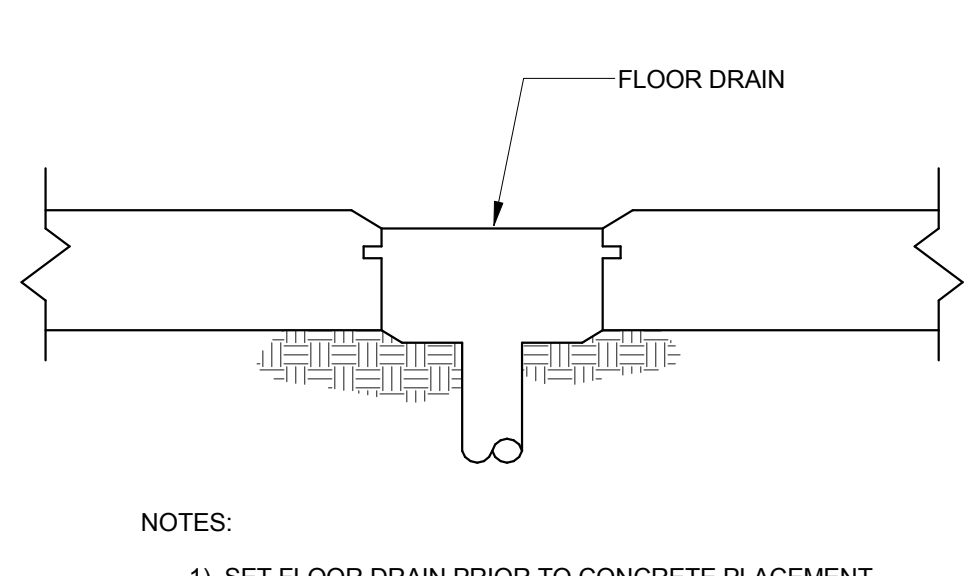
2 TYPICAL SOG CONSTRUCTION JOINT DETAIL



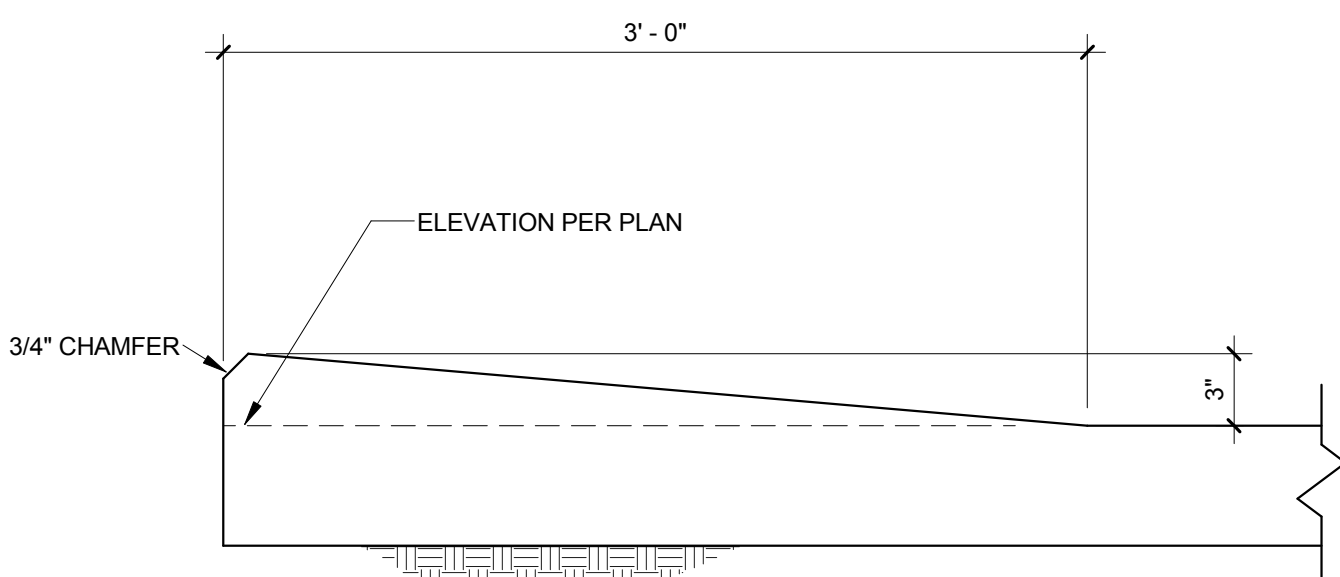
3 TYPICAL SOG CONTROL JOINT DETAIL



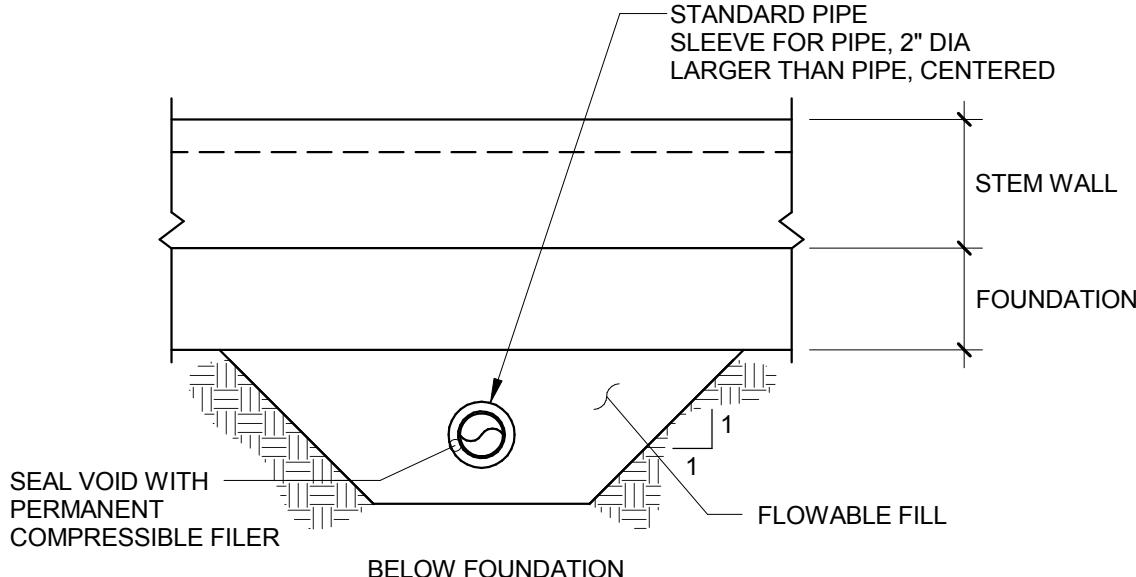
4 TYPICAL SOG AT TRANSITION DETAIL



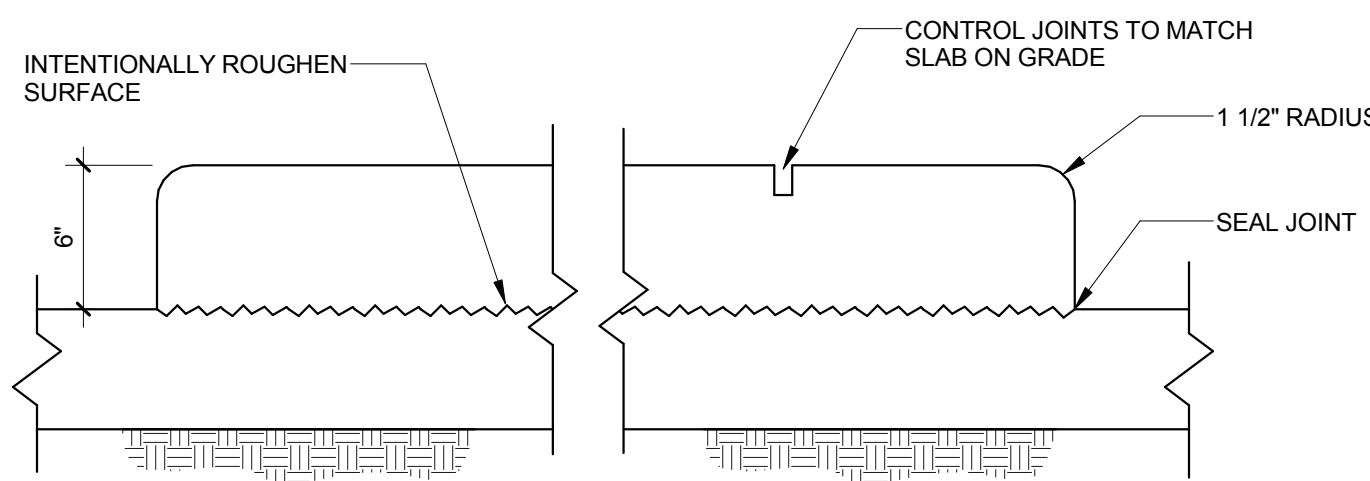
5 TYPICAL FLOOR DRAIN DETAIL (SOG)



6 TYPICAL (SOG) WASH DETAIL



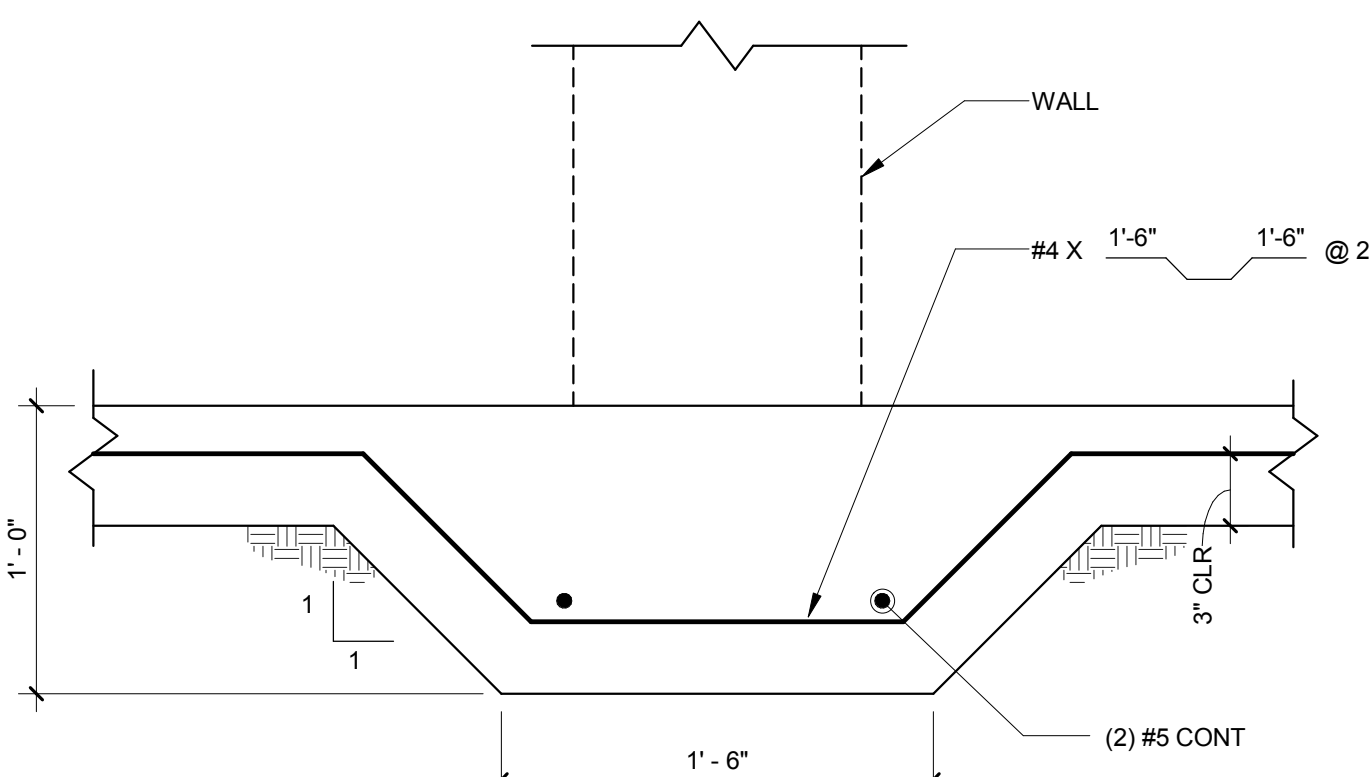
7 TYPICAL FOOTING DETAIL AT PIPE PENETRATION



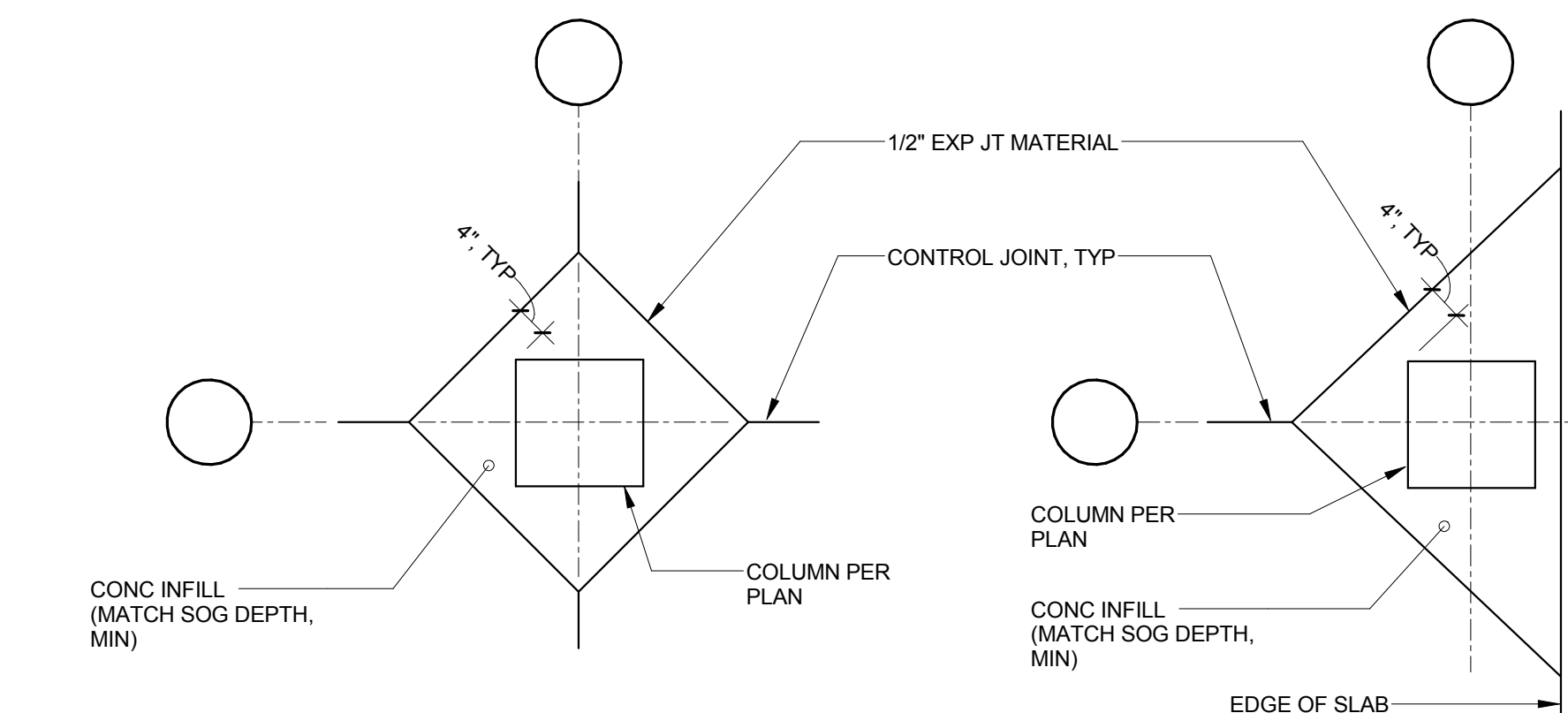
8 TYPICAL ISLAND DETAIL

NOT USED

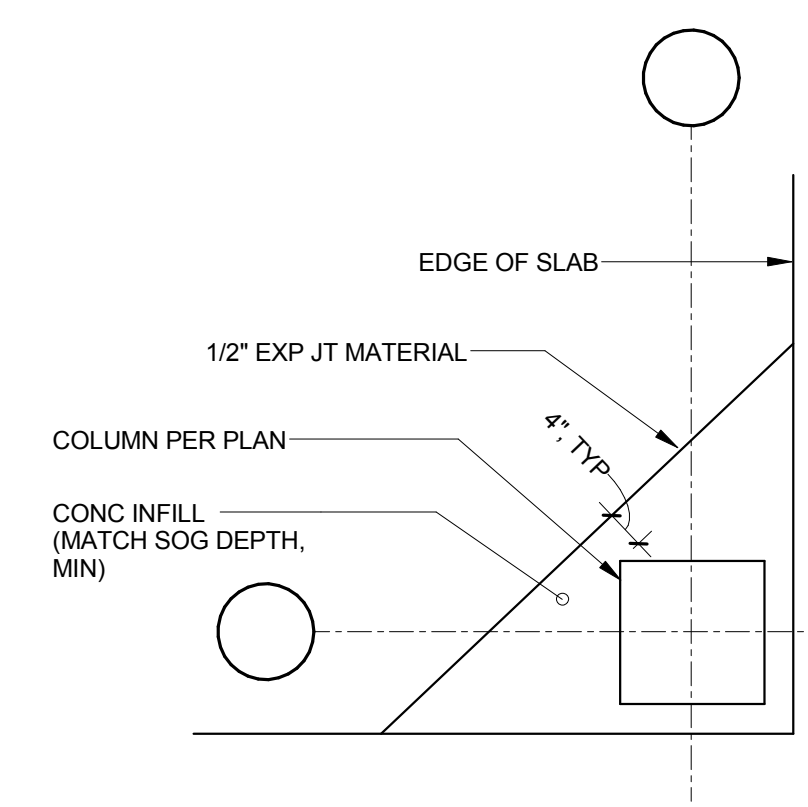
9 SECTION



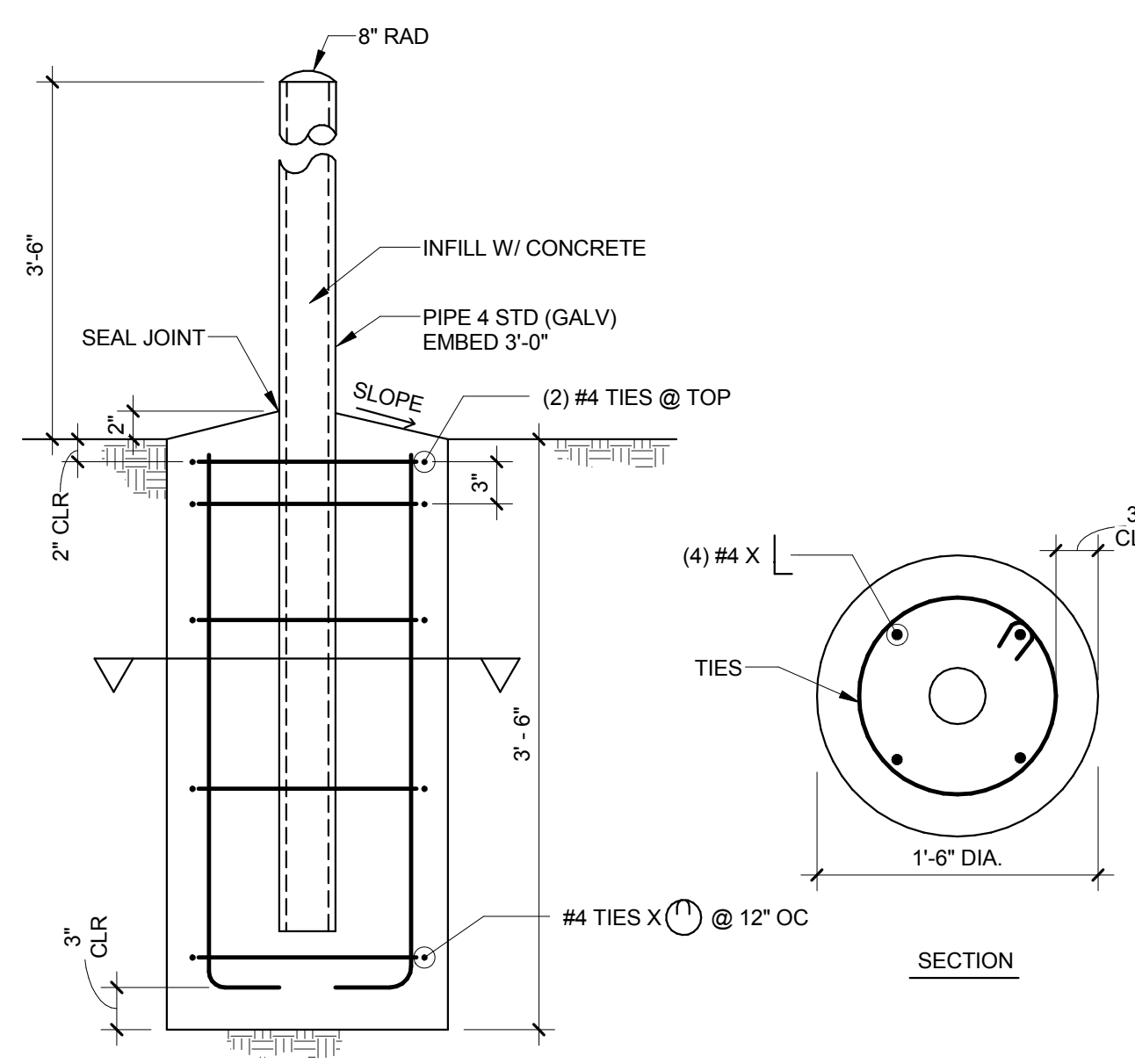
10 TYPICAL THICKENED SLAB AT NON-BEARING WALLS



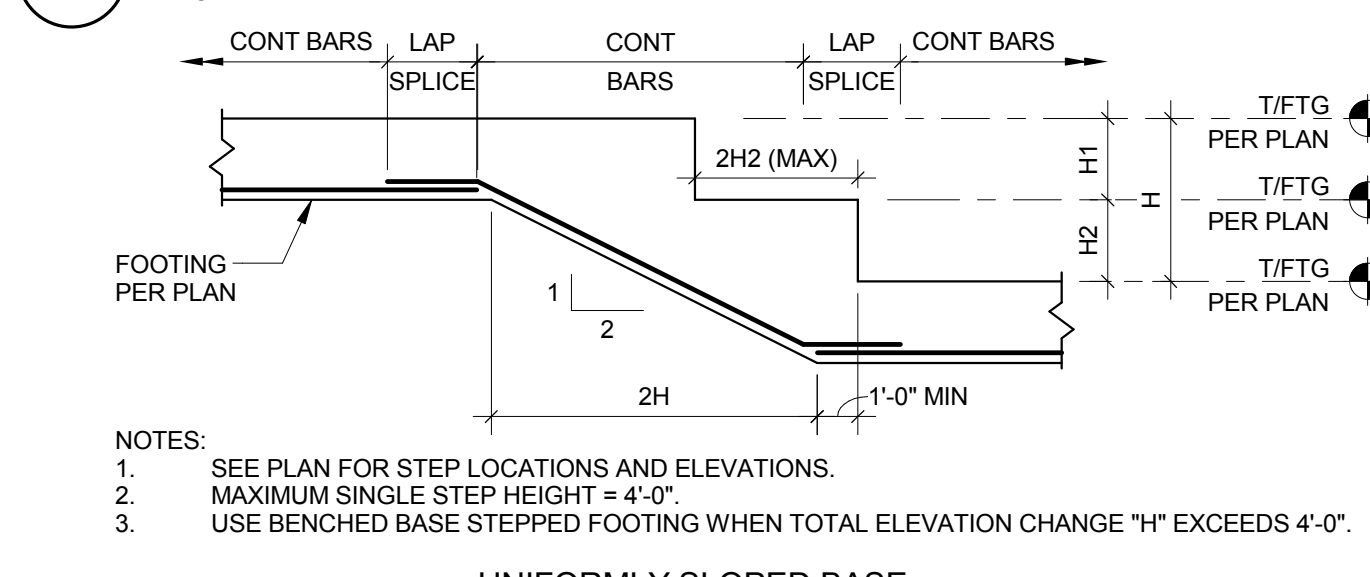
11 TYPICAL COLUMN ISOLATION JOINT DETAIL



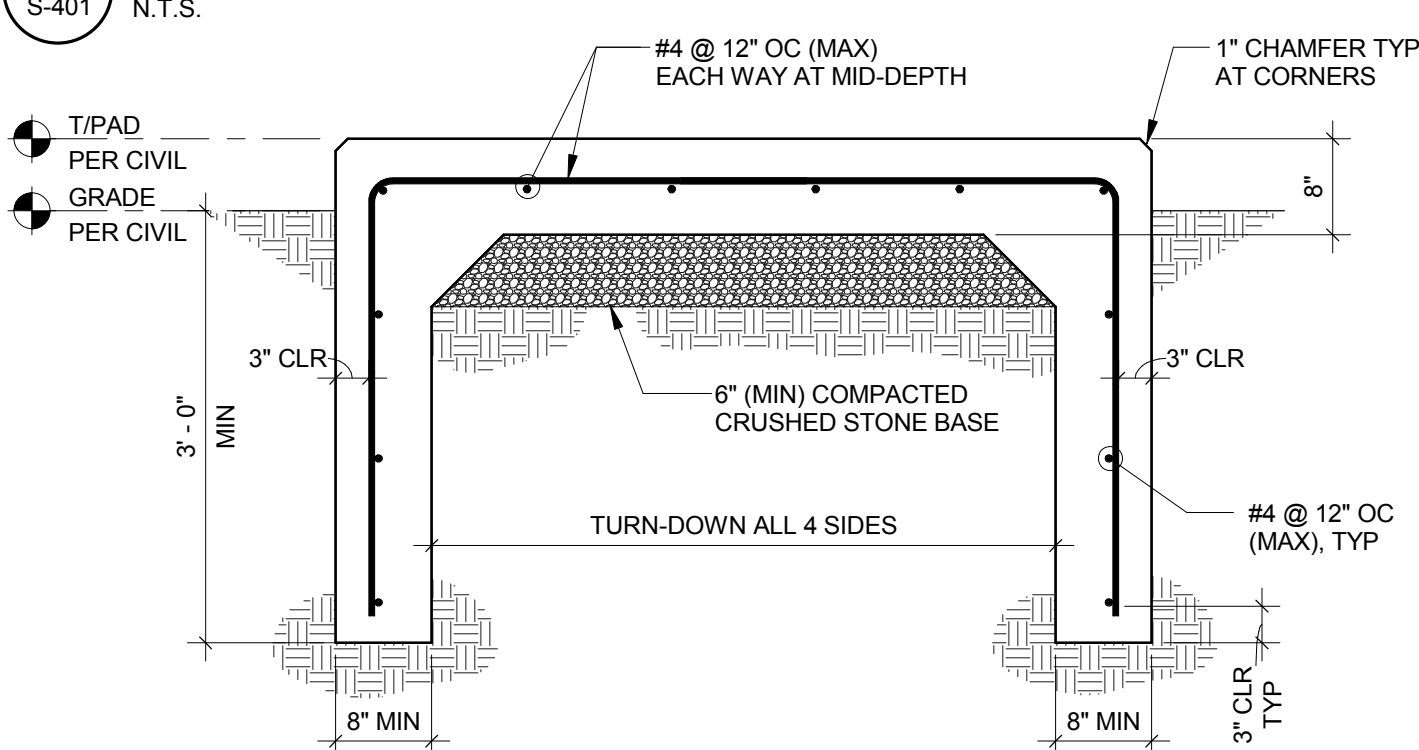
12 TYPICAL COLUMN FTG/EXCAVATION LIMITS DETAIL



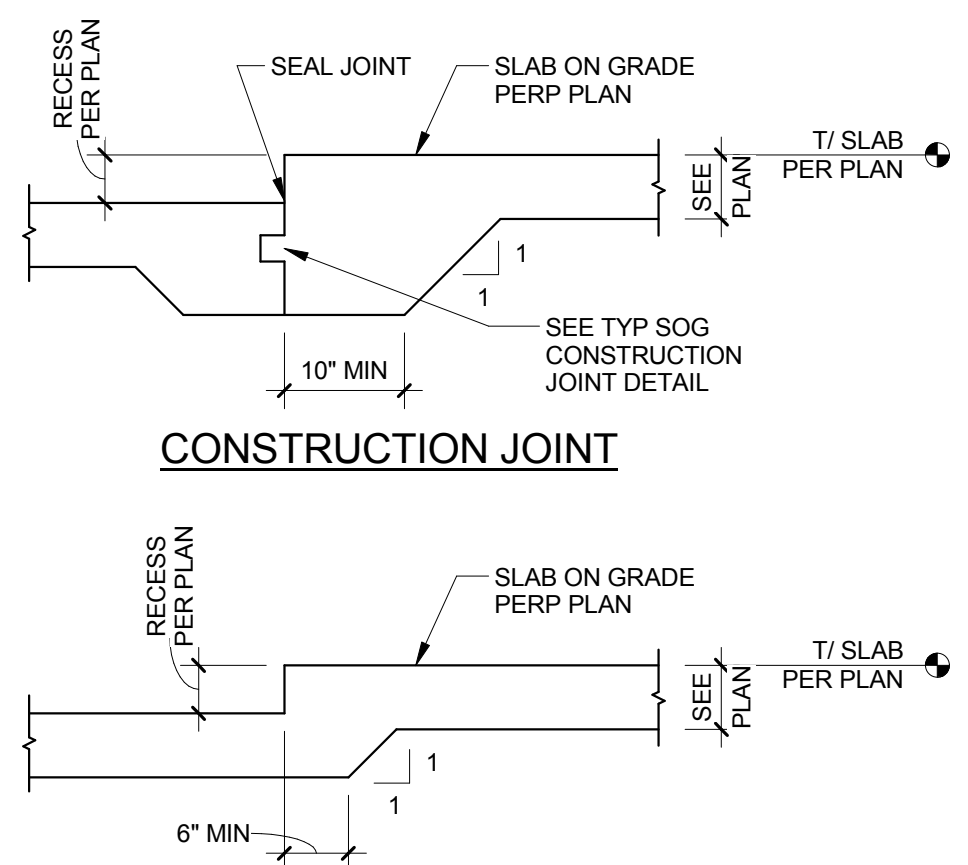
13 TYPICAL BOLLARD DETAIL (AT GRADE)



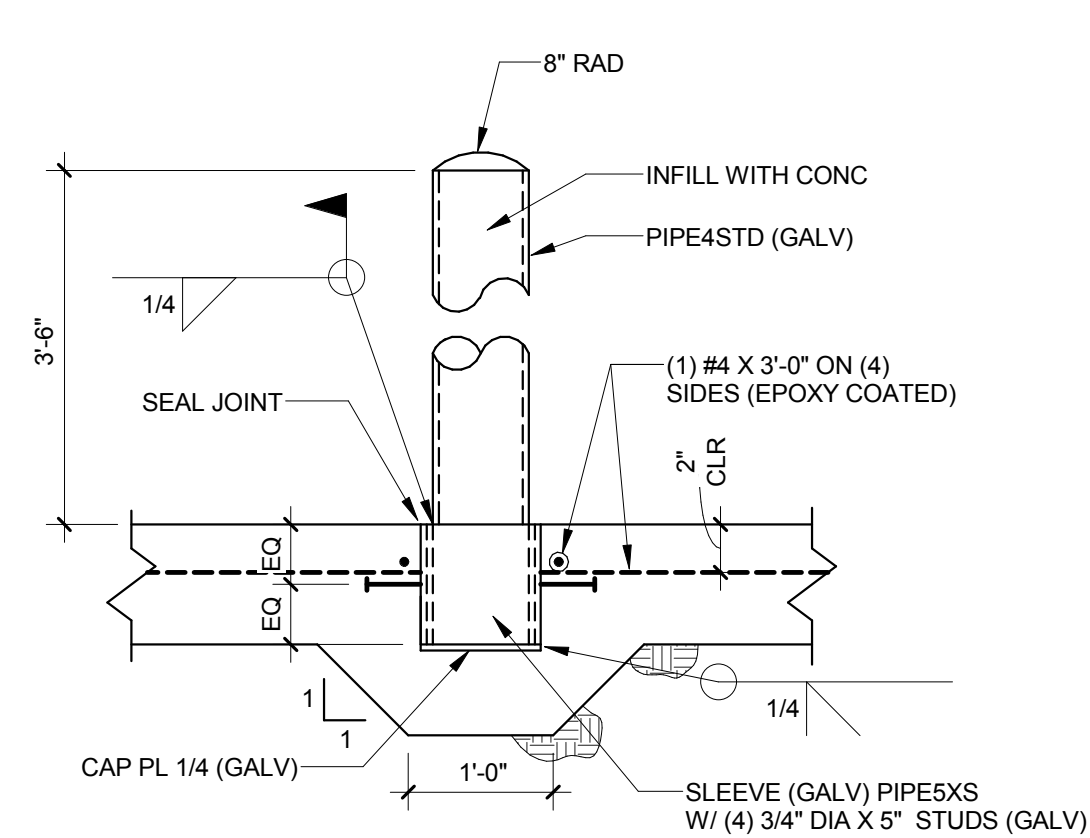
14 TYPICAL STEPPED FOOTING



15 EXTERIOR EQUIPMENT PAD DETAIL



16 TYPICAL SLAB RECESS



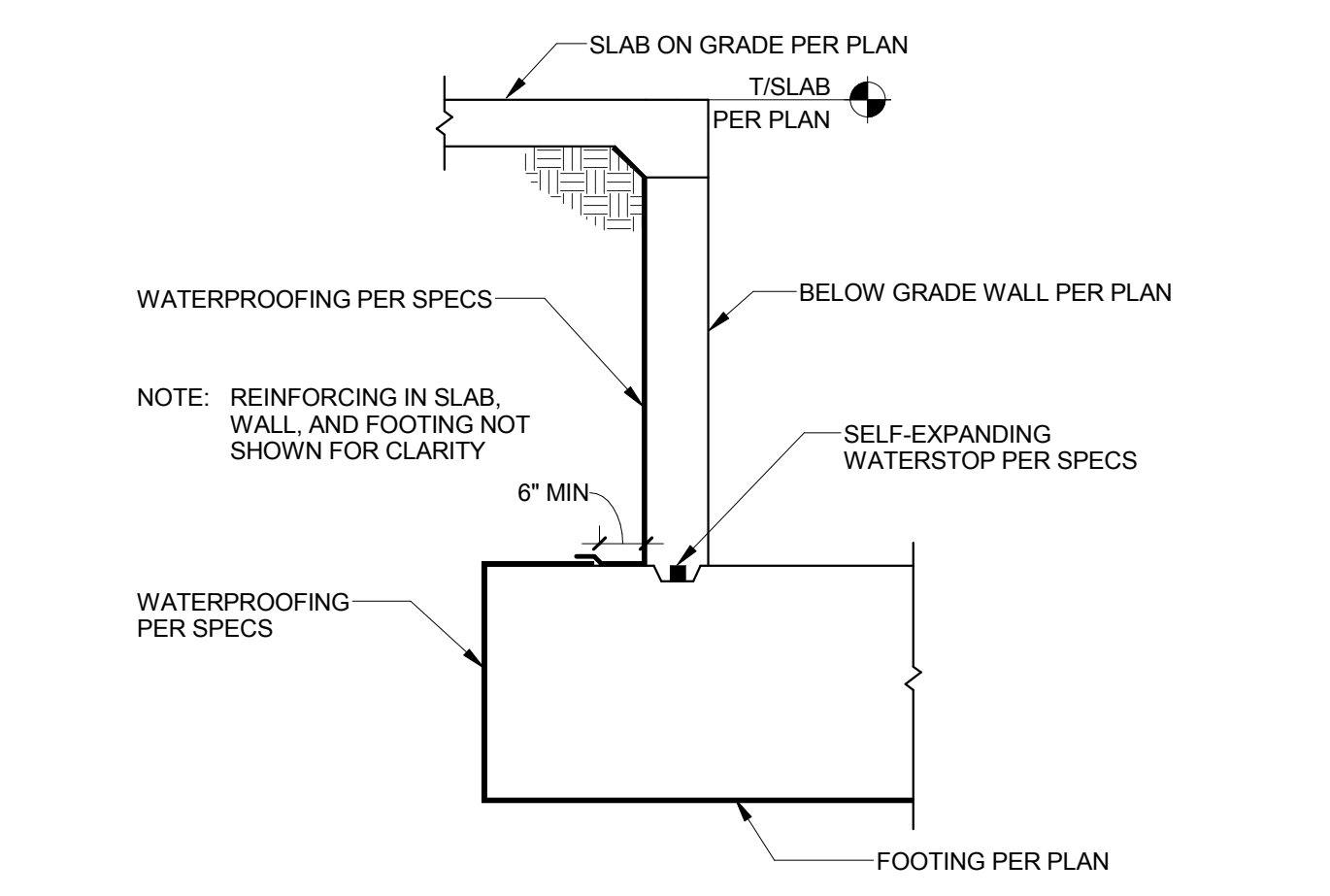
17 TYPICAL BOLLARD DETAIL (SOG)

GRADE BEAM SCHEDULE					
MARK	SIZE		REINFORCEMENT	TYPE	TIES
	WIDTH	DEPTH			
GB1	24"	24"	(3) #9 TOP & (3) #9 BOT	A	#4 TIES @ 12" OC
GB2	42"	24"	(5) #8 TOP & (5) #8 BOT	A	#4 TIES @ 12" OC

NOTES:

1. PROVIDE A 4" CONTINUOUS VOID FORM BENEATH GRADE BEAMS.

18 GRADE BEAM SCHEDULE



19 TYPICAL WATERSTOP AND WATERPROOFING

ADDENDUM #1 FOR CONSTRUCTION

Revisions:

Date

Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501

COLORADO LICENSED  
PROFESSIONAL ENGINEER  
39624  
a-27-13

APOGEE  
Consulting Group, PA

CooverClark

AMERICAN  
STRUCTUREPOINT  
INC.

PROJECT LEADER/ARCHITECT:

**GUIDON DESIGN**

2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
317.800.6388 WWW.GUIDONDESIGN.COM  
SUSTAINABLE ARCHITECTURE + ENGINEERING

Drawing Title

TYPICAL  
CONCRETE/FDN  
DETAILS

Approved for Design Concept:  
John Bartman  
John.Bartman@va.gov  
970-263-5016

Project Title

PARKING GARAGE

Location

Grand Junction VA MC

Date

4/10/2014

Checked By:

JAP

Drawn By:

BGC

Project Number

12.1042

Building Number

Bldg -39

Drawing Number

S-401

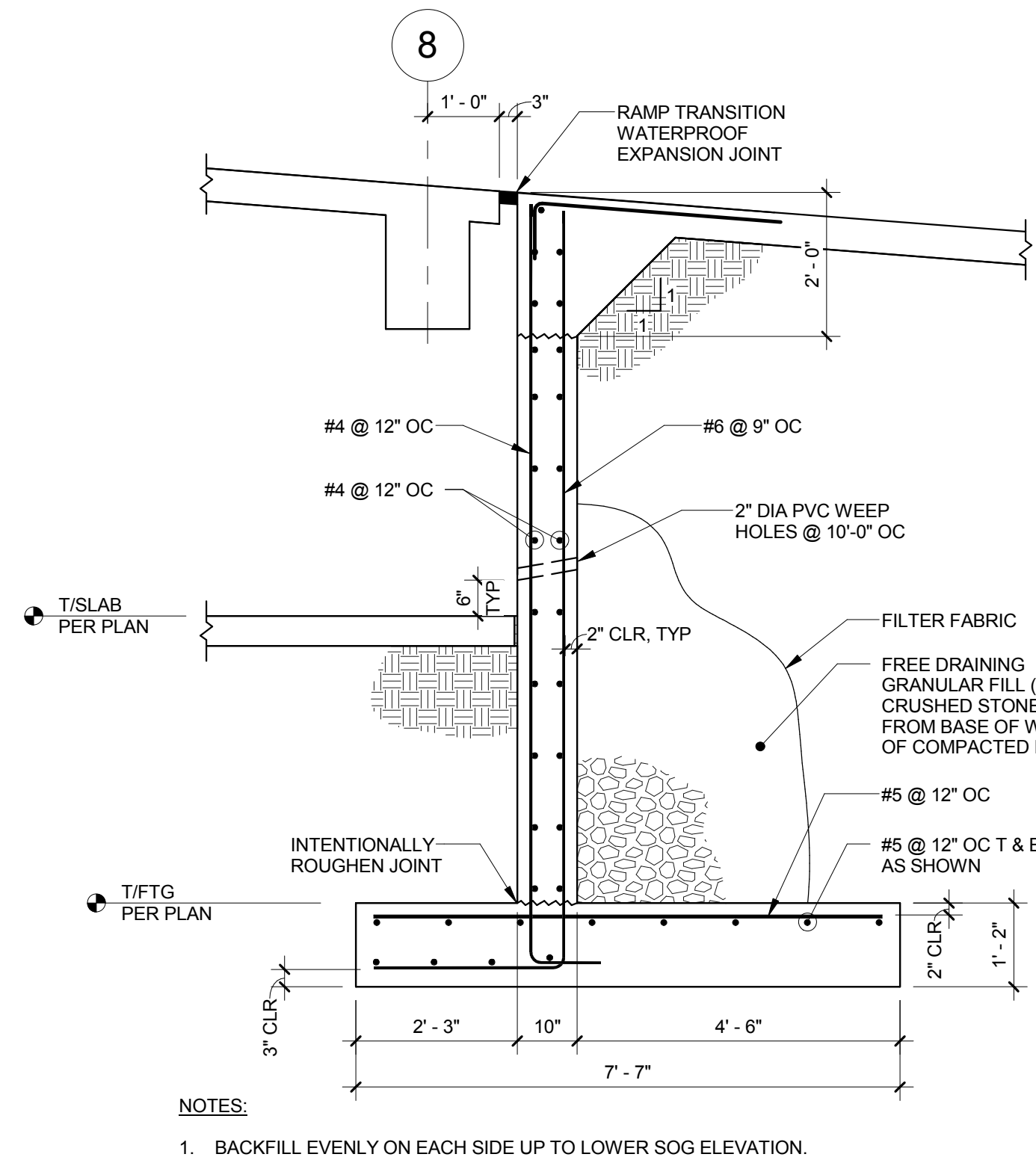
VA Project Number

575-206

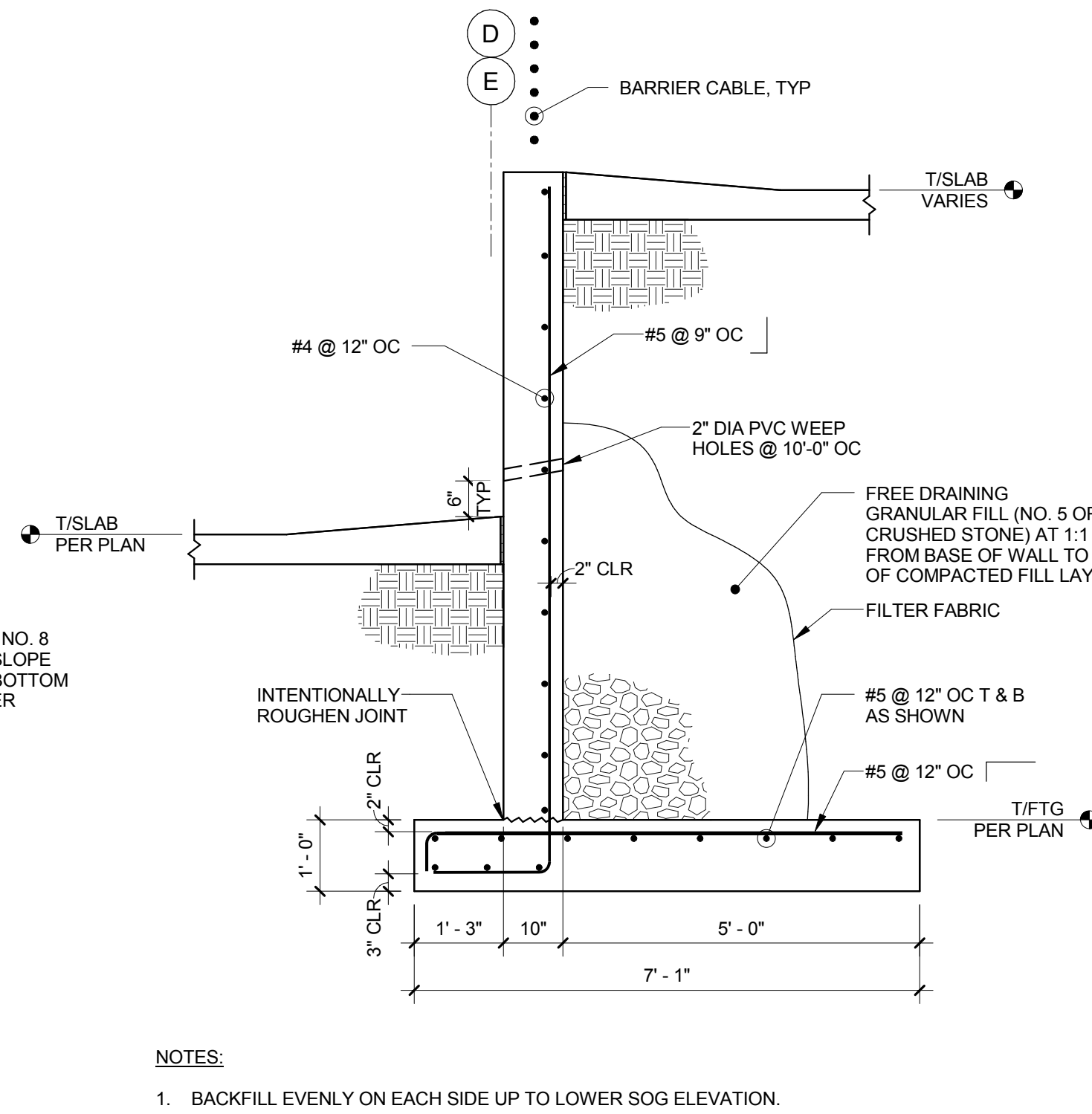
Department of Veterans Affairs

OFFICE OF  
FACILITIES  
MANAGEMENT

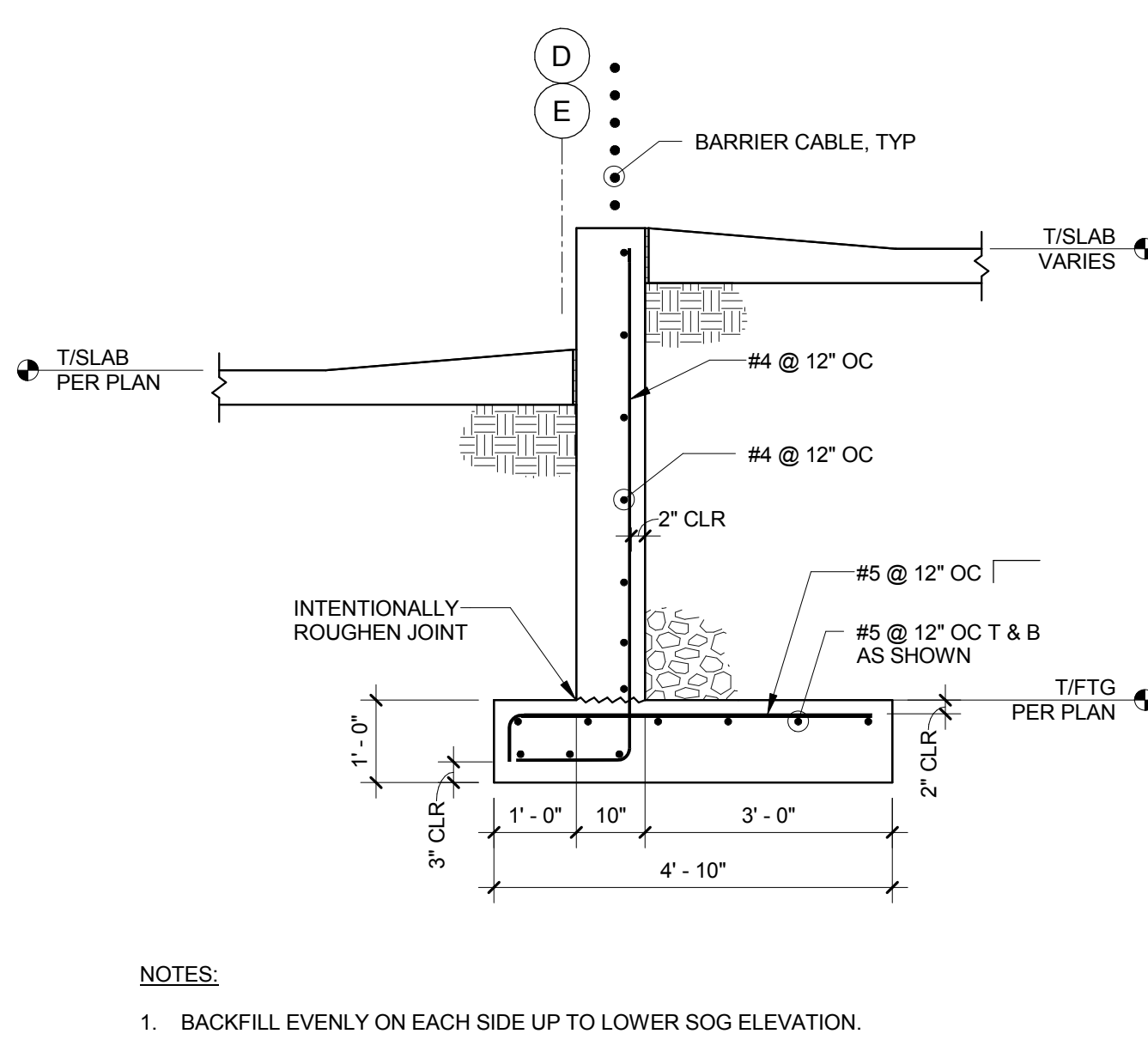




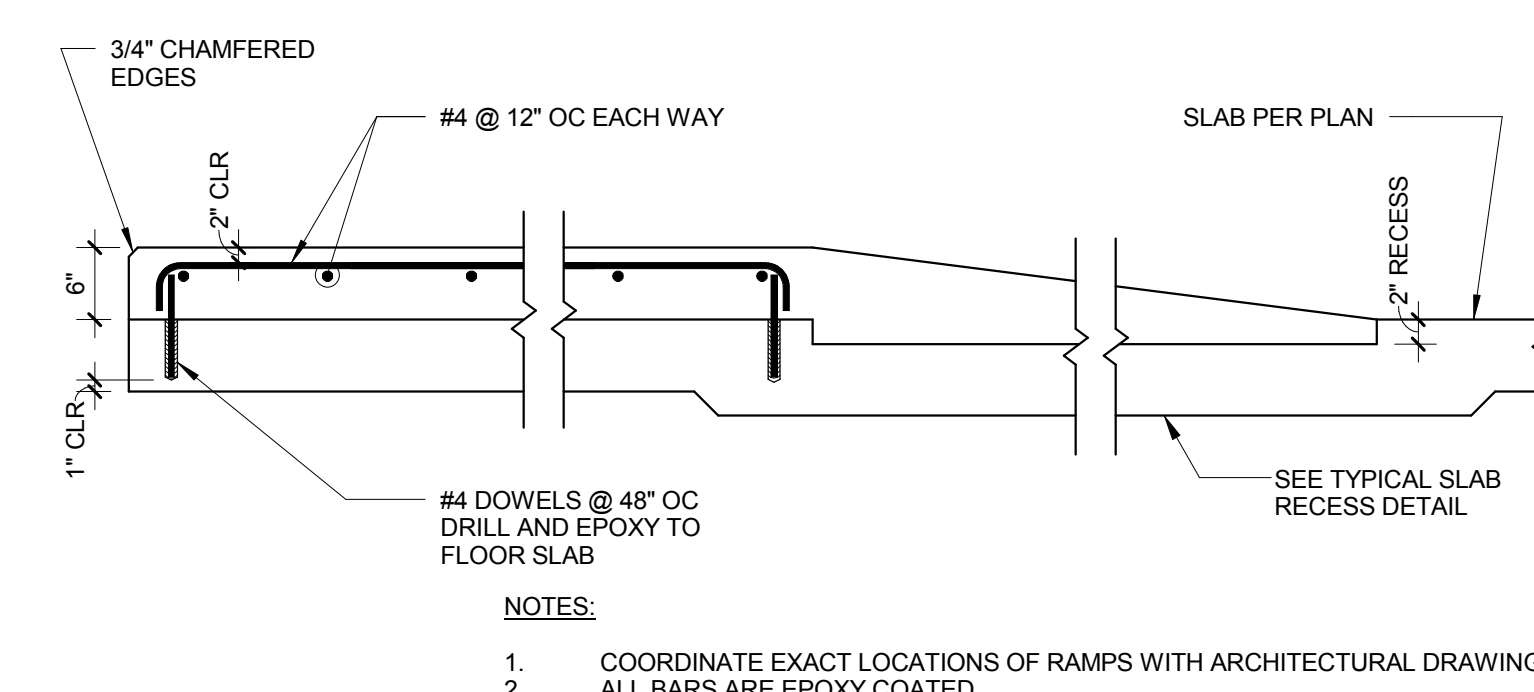
SECTION 1  
S-402 1/2" = 1'-0"



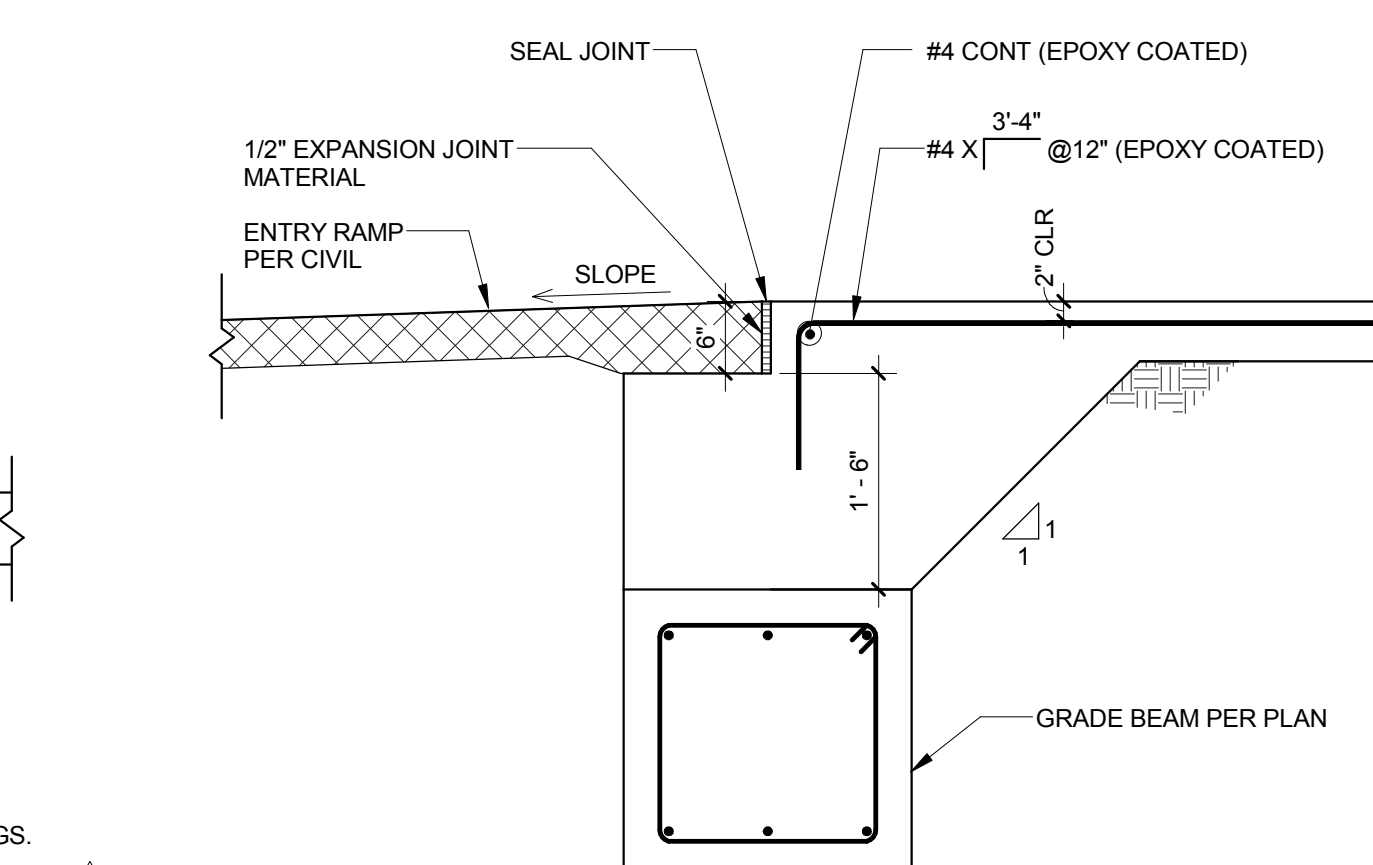
SECTION 2  
S-402 1/2" = 1'-0"



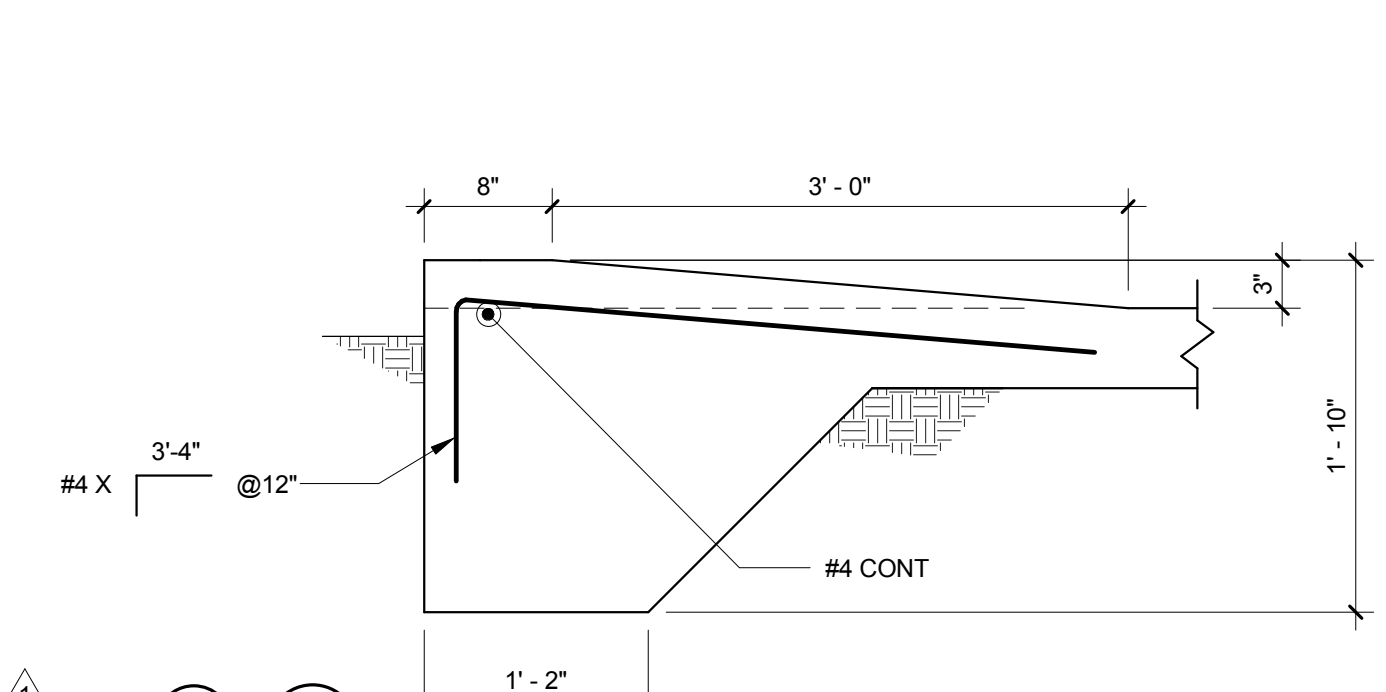
SECTION 3  
S-402 1/2" = 1'-0"



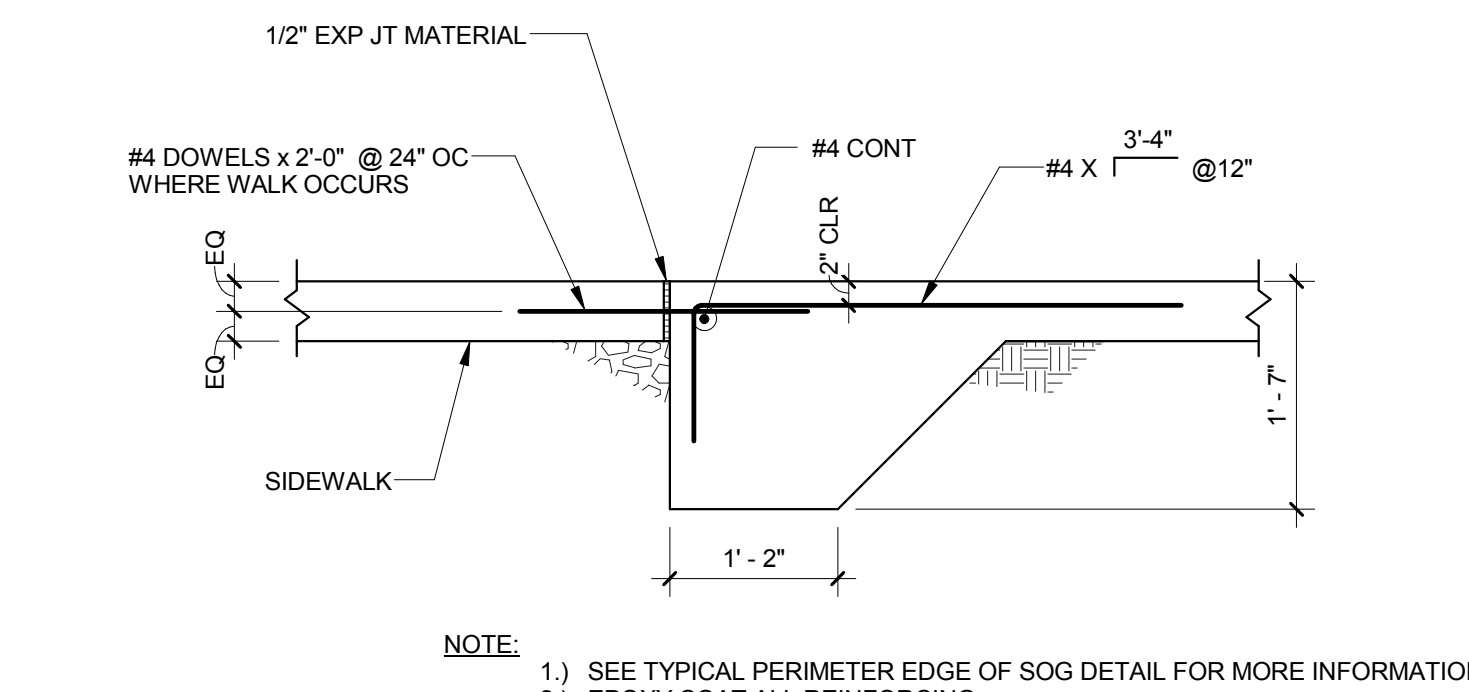
SECTION 4  
S-402 3/4" = 1'-0"



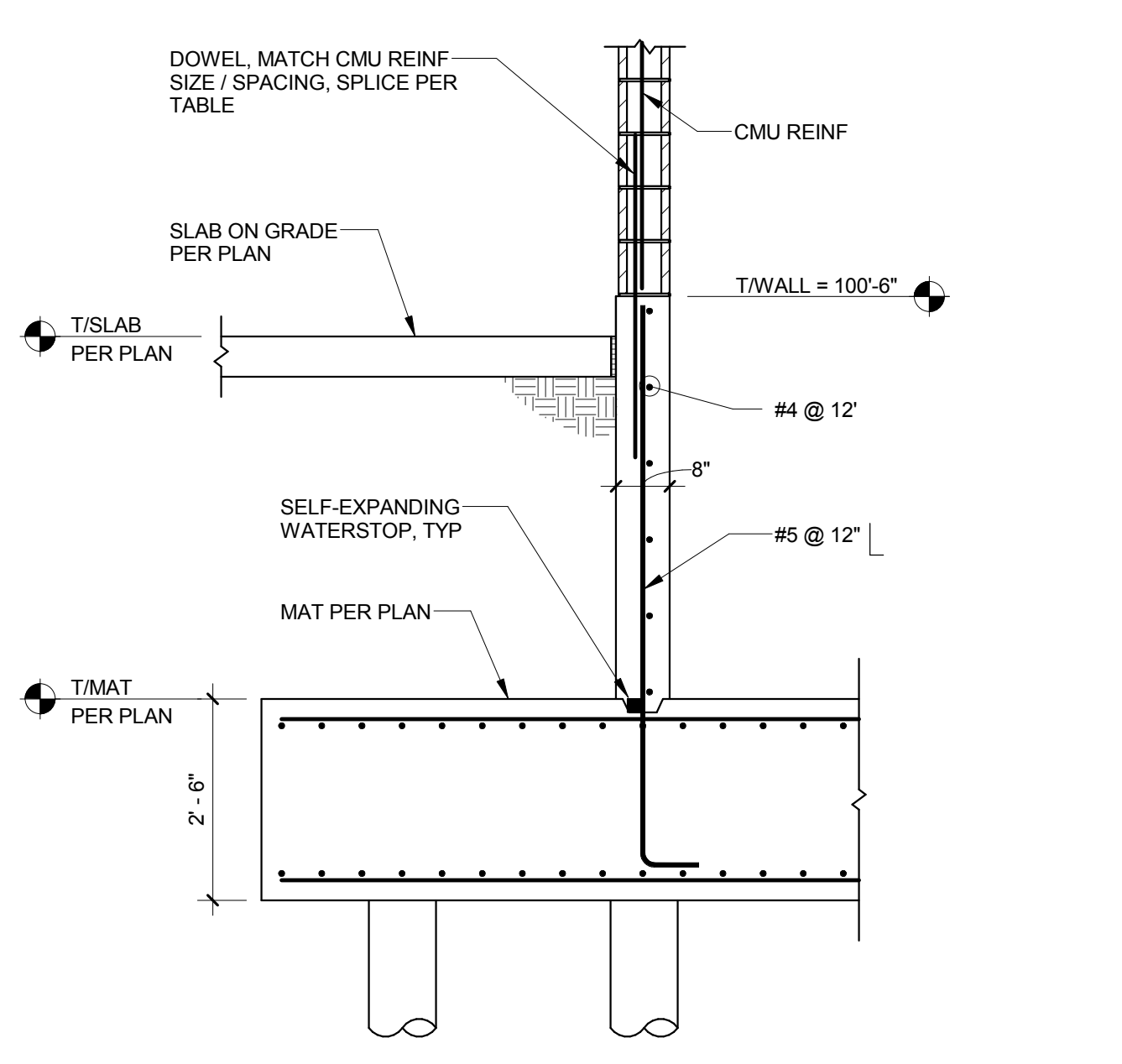
SECTION 5  
S-402 3/4" = 1'-0"



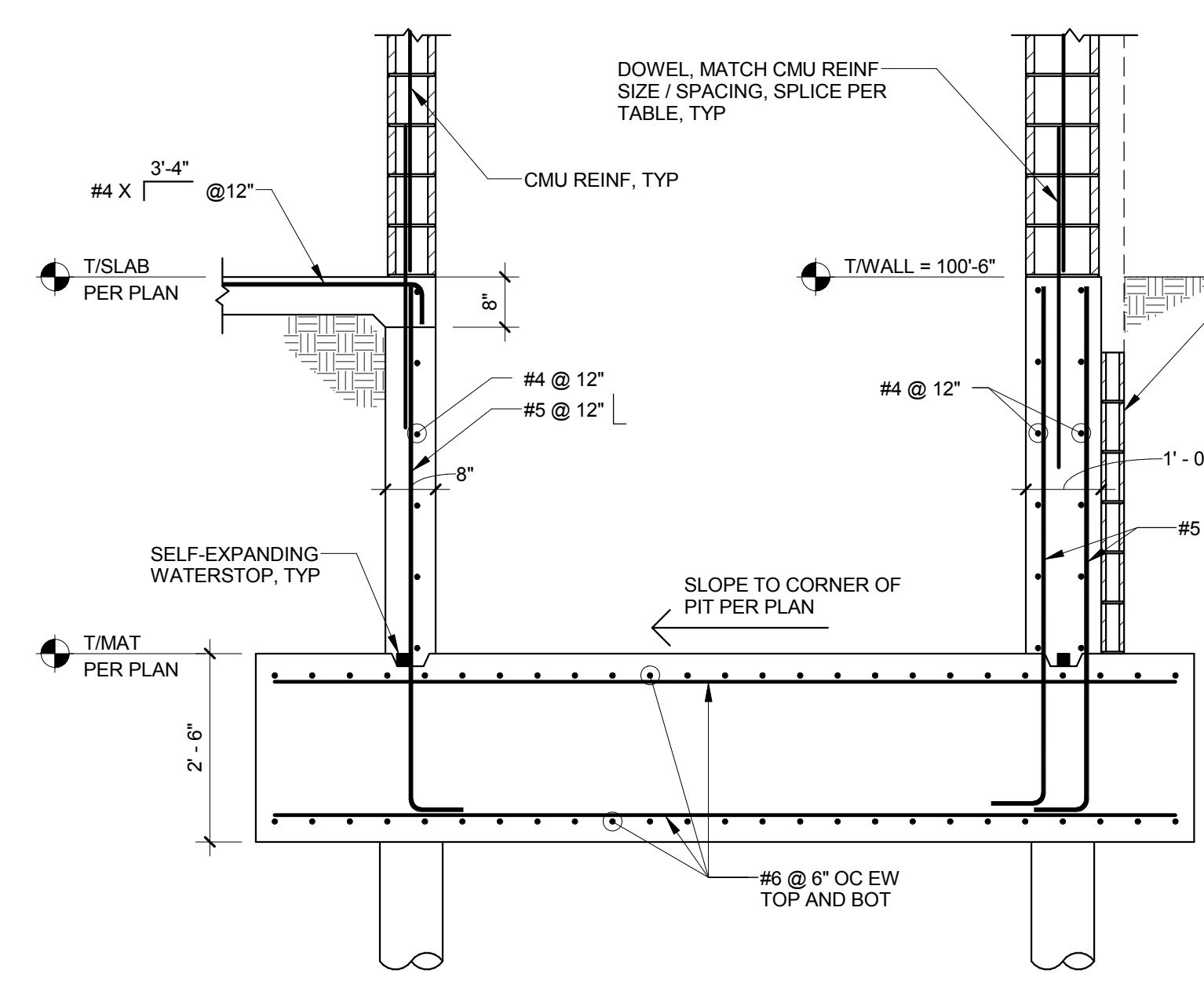
SECTION 6  
S-402 1" = 1'-0"



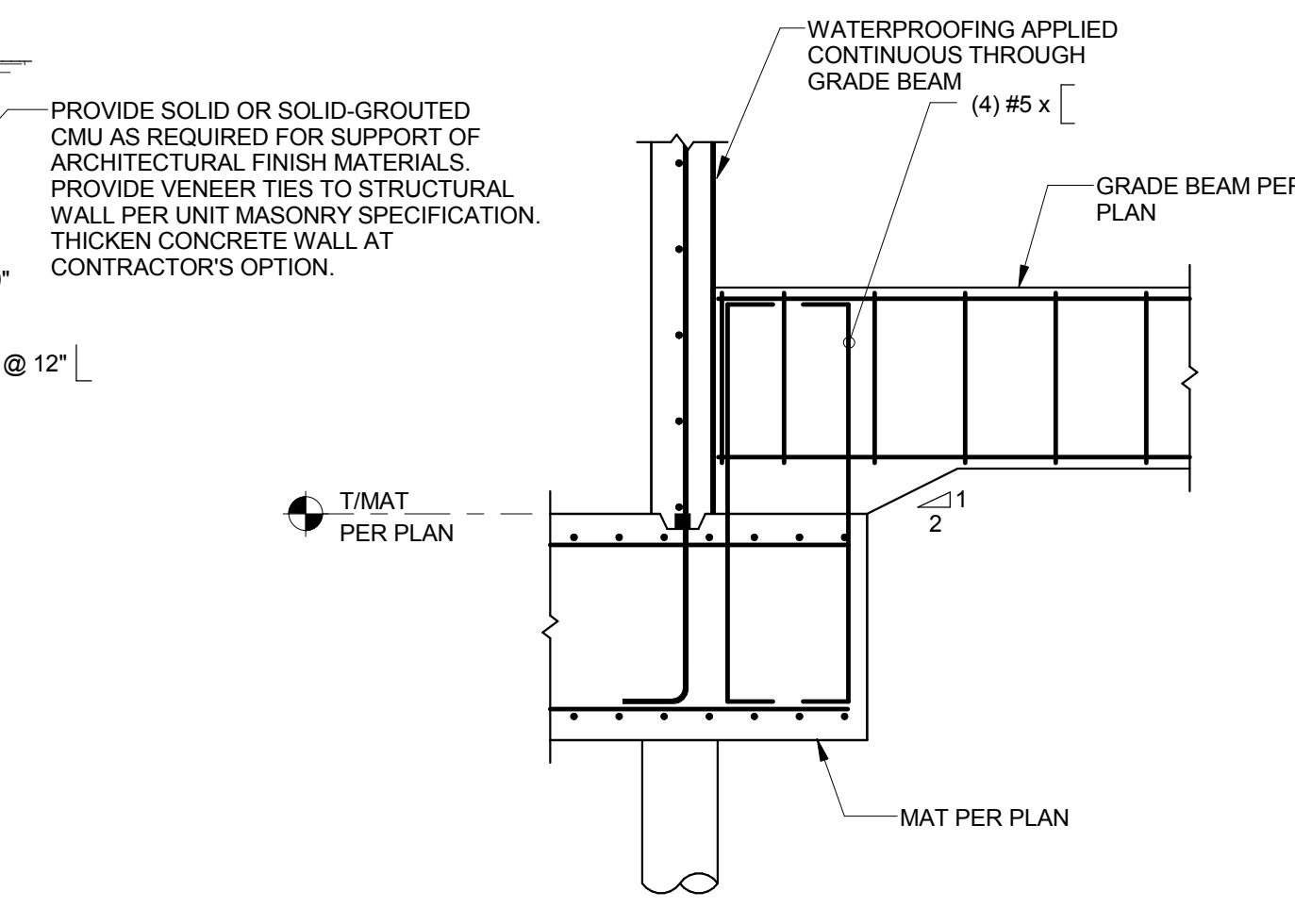
SECTION 7  
S-402 3/4" = 1'-0"



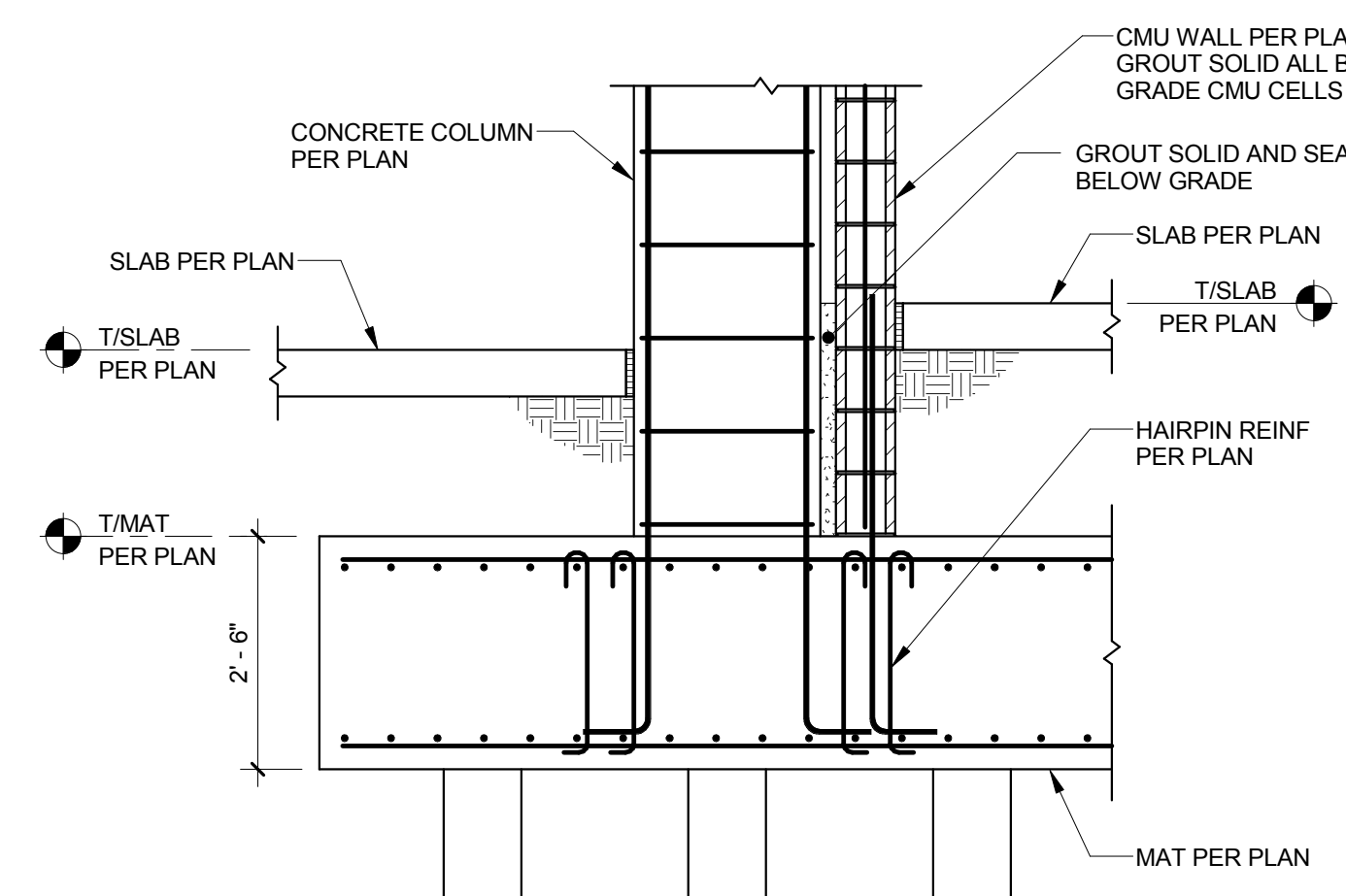
SECTION 8  
S-402 1/2" = 1'-0"



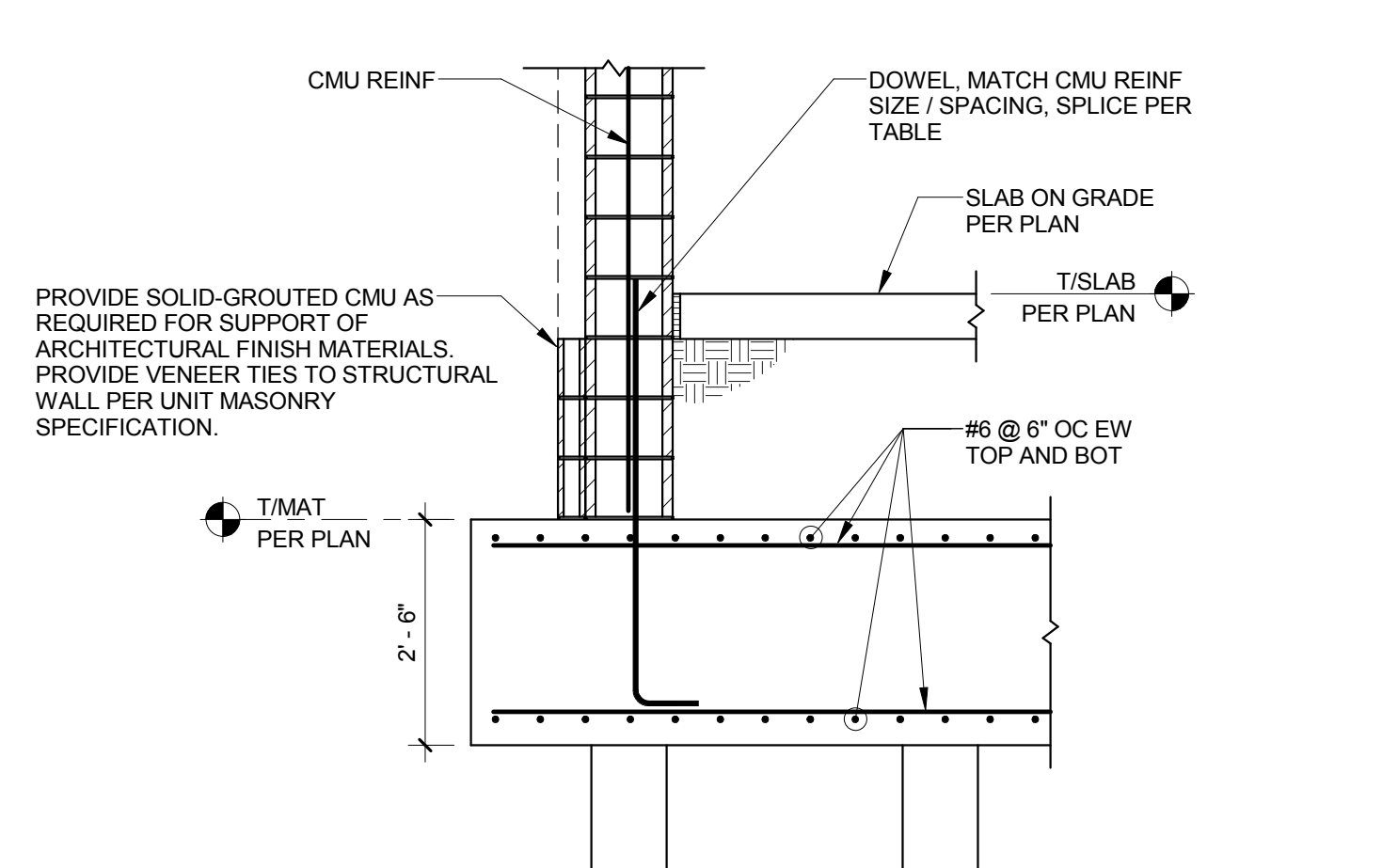
SECTION 9  
S-402 1/2" = 1'-0"



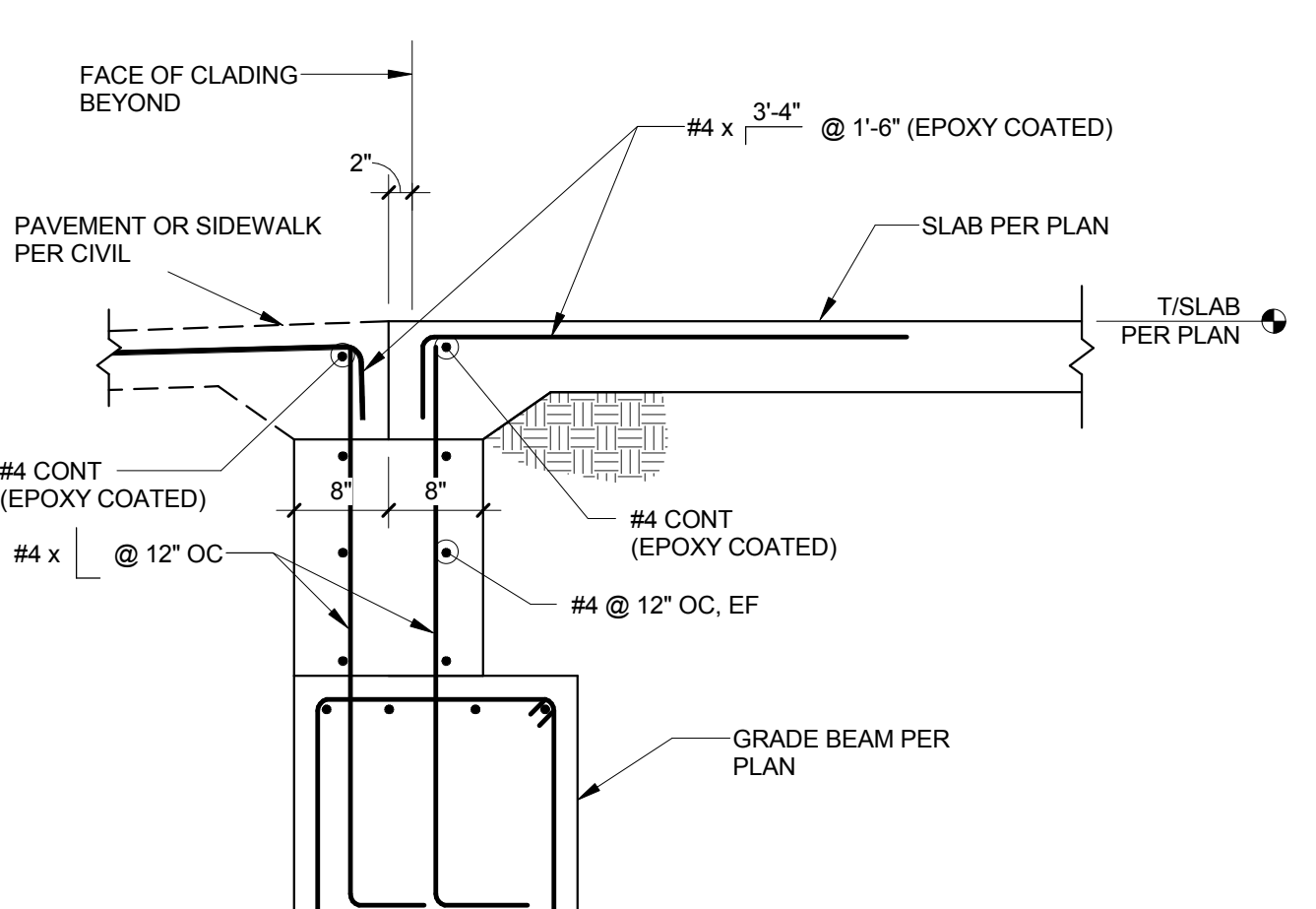
SECTION 10  
S-402 1/2" = 1'-0"



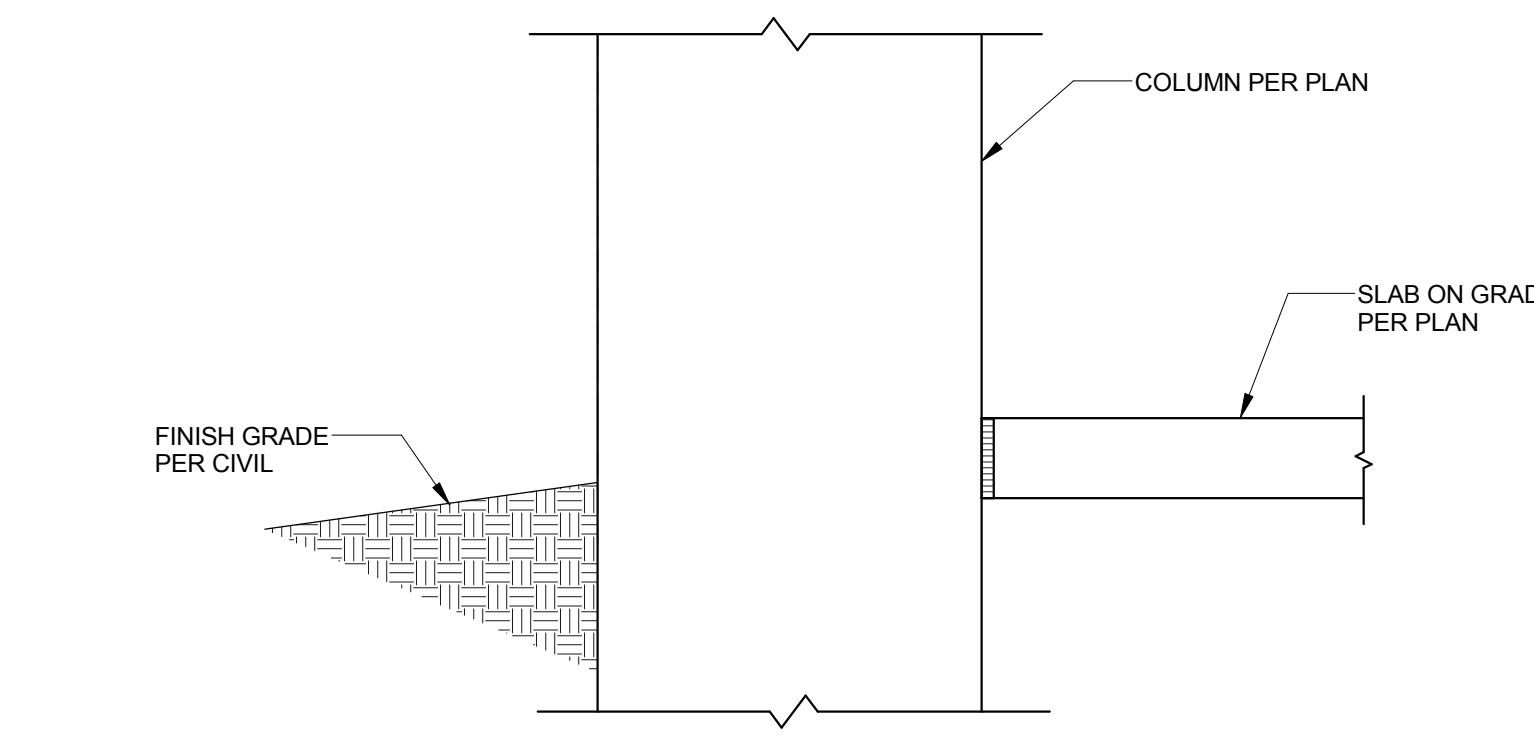
SECTION 11  
S-402 1/2" = 1'-0"



SECTION 12  
S-402 1/2" = 1'-0"

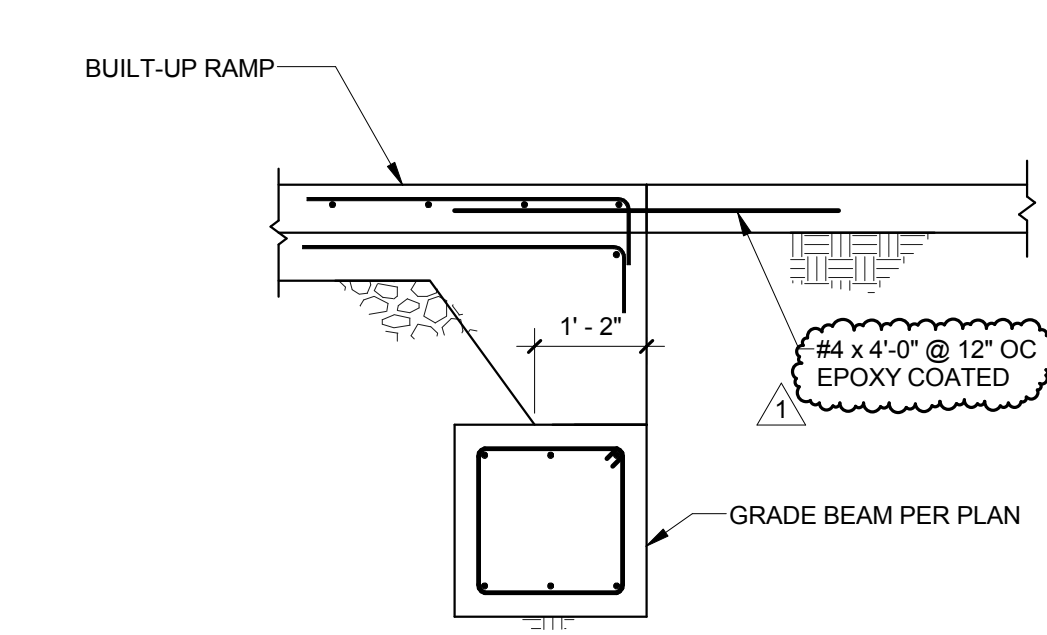


SECTION 13  
S-402 3/4" = 1'-0"

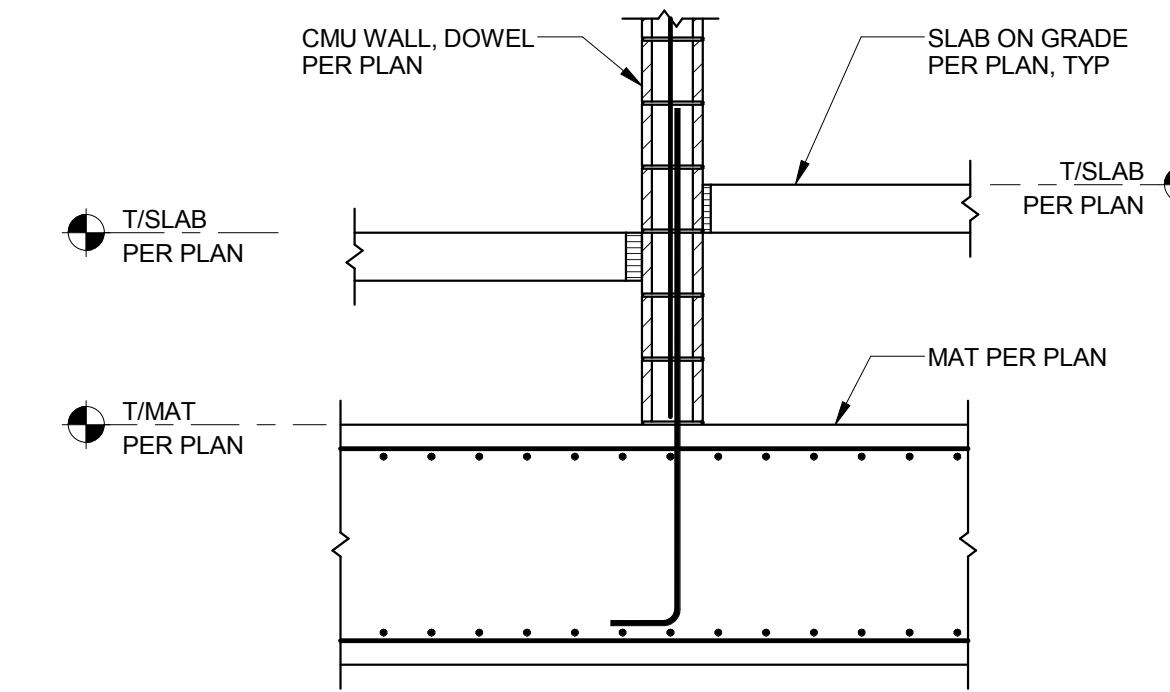


SECTION 14  
S-402 1" = 1'-0"

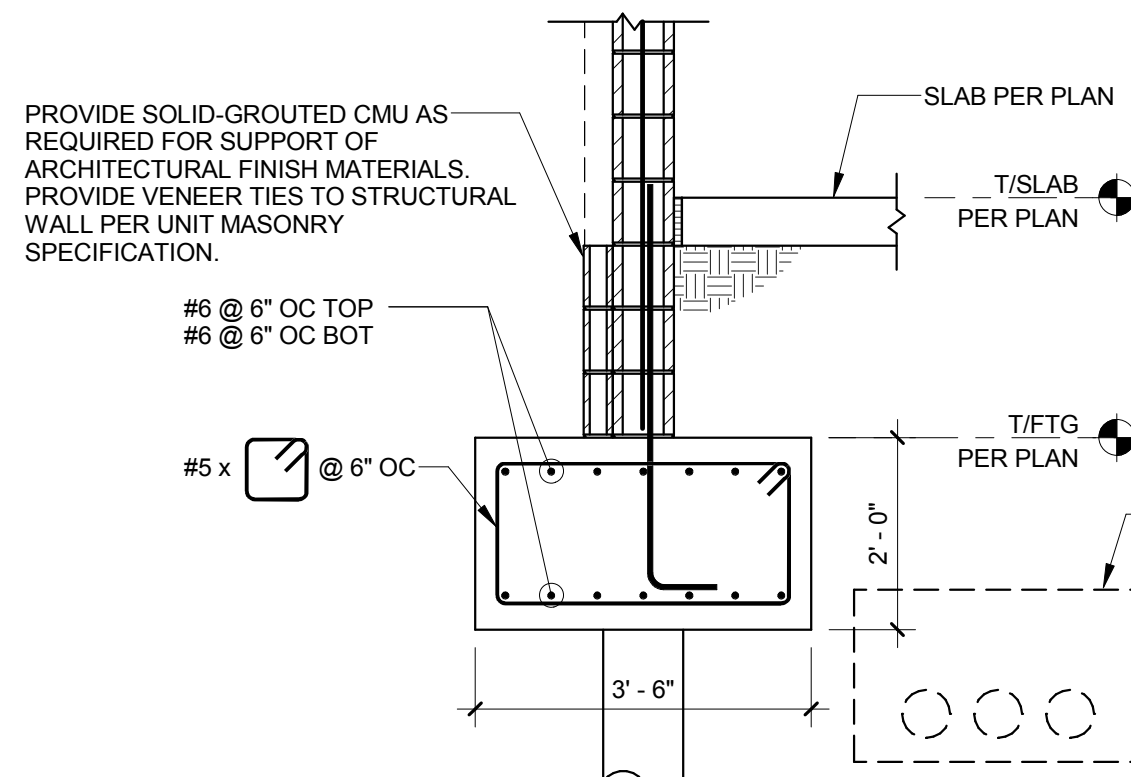
<p>1 ADDENDUM #1</p> <p>Revisions:</p>		<p>4/10/2014</p> <p>Date</p>	<p>Grand Junction VA Medical Center 2121 North Avenue Grand Junction, CO 81501</p>	<p>COLORADO LICENSED PROFESSIONAL ENGINEER 39624 a-27-13</p>	<p>APOGEE Consulting Group, PA</p>	<p>CooverClark</p>	<p>AMERICAN STRUCTUREPOINT INC.</p>	<p>PROJECT LEADER/ARCHITECT:</p> <p><b>GUIDON DESIGN</b></p> <p>2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205 317.800.6388 WWW.GUIDONDESIGN.COM SUSTAINABLE ARCHITECTURE + ENGINEERING</p>	<p>ADDENDUM #1 FOR CONSTRUCTION</p>				<p>Drawing Title</p> <p>FOUNDATION SECTIONS</p>	<p>Project Title</p> <p>PARKING GARAGE</p>	<p>Project Number</p> <p>12.1042</p>	<p>Building Number</p> <p>Bldg - 39</p>	<p>Office of Facilities Management</p>	<p>Approved for Design Concept:</p> <p>John Bartman John.Bartman@va.gov 970-263-5016</p>	<p>Location</p> <p>Grand Junction VA MC</p>	<p>VA Project Number</p> <p>575-206</p>	<p>Drawing Number</p> <p>S-402</p>	<p>Department of Veterans Affairs</p>
									<p>Date</p> <p>4/10/2014</p>	<p>Checked By:</p> <p>JAP</p>	<p>Drawn By:</p> <p>BGC</p>											



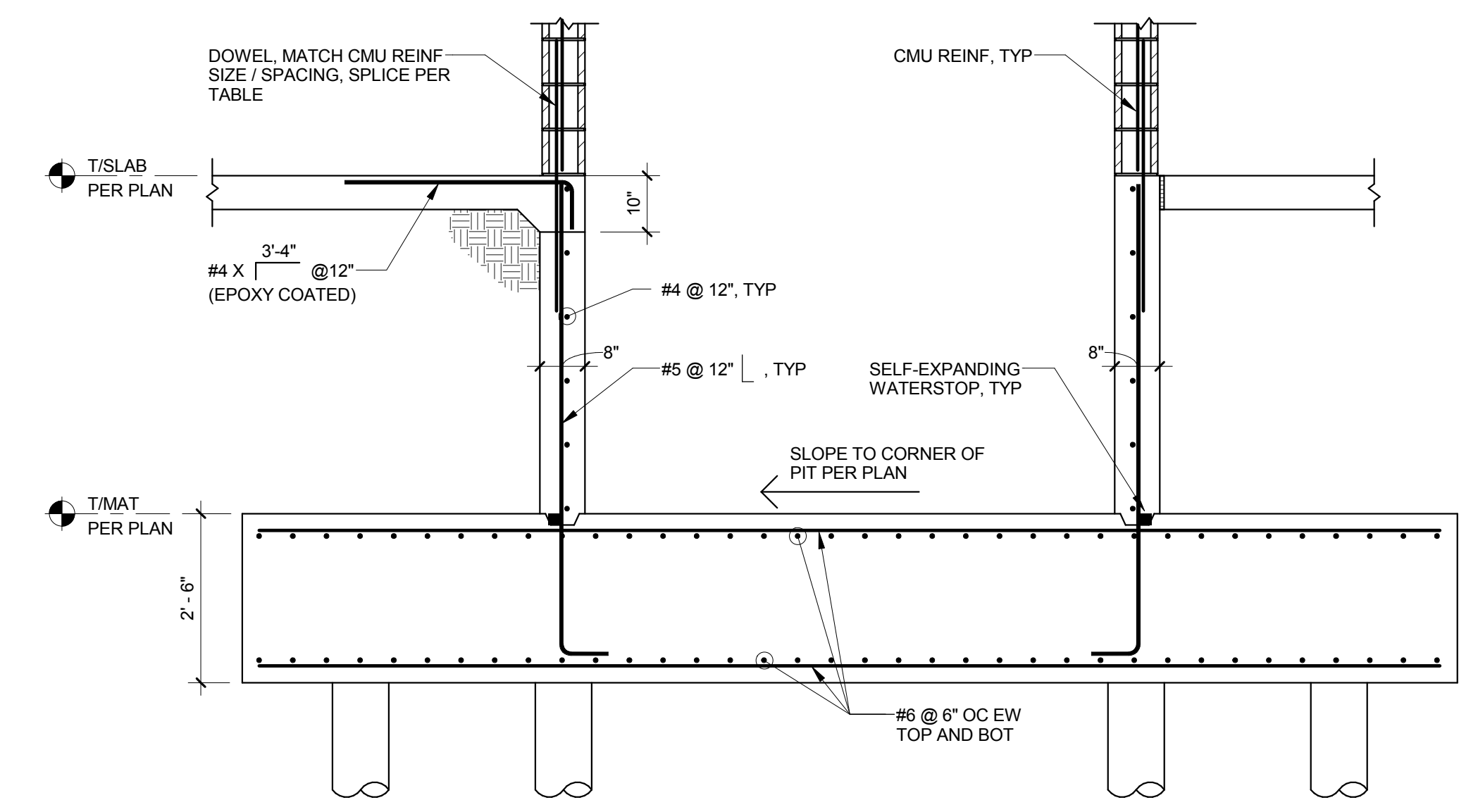
1 SECTION  
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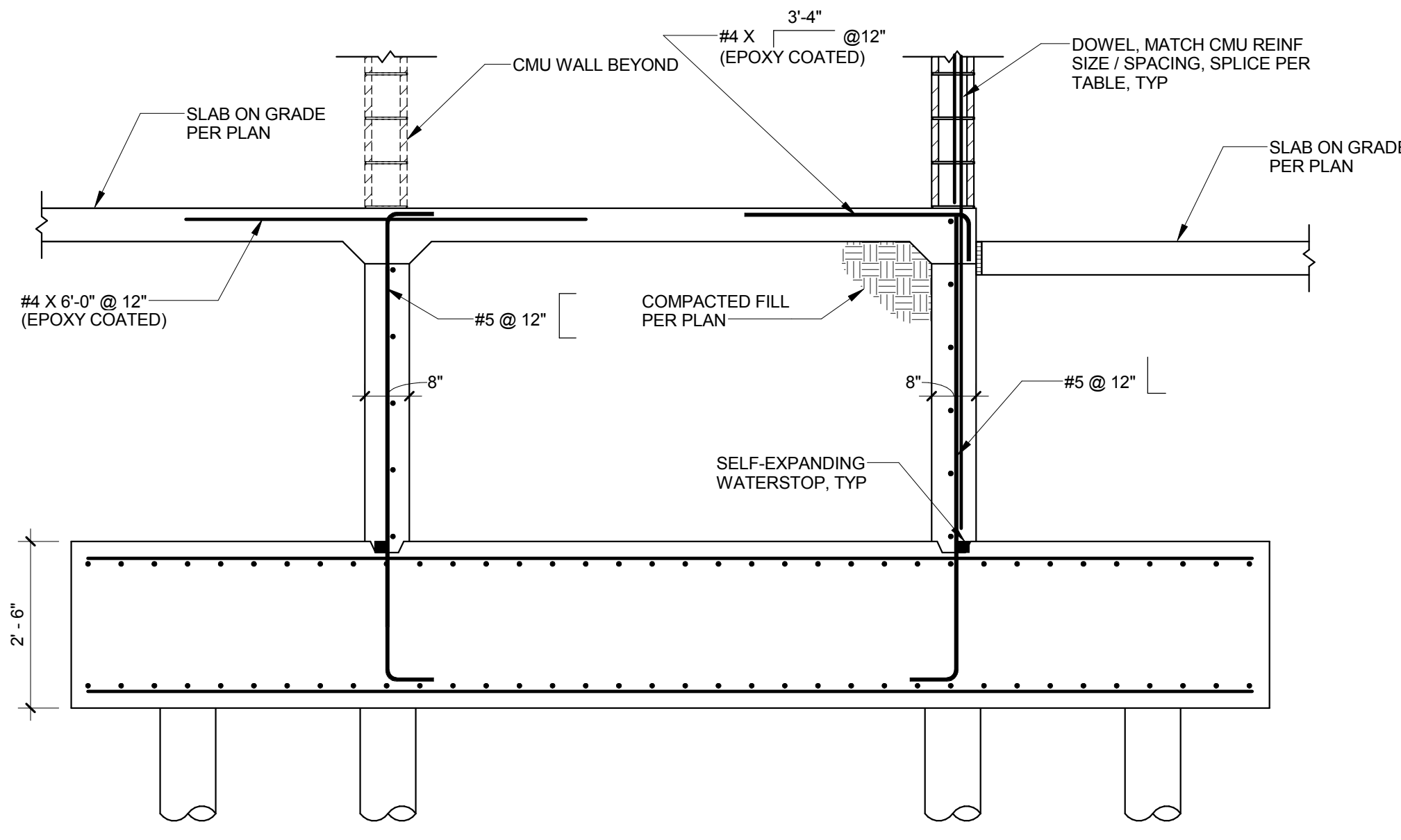
2 SECTION  
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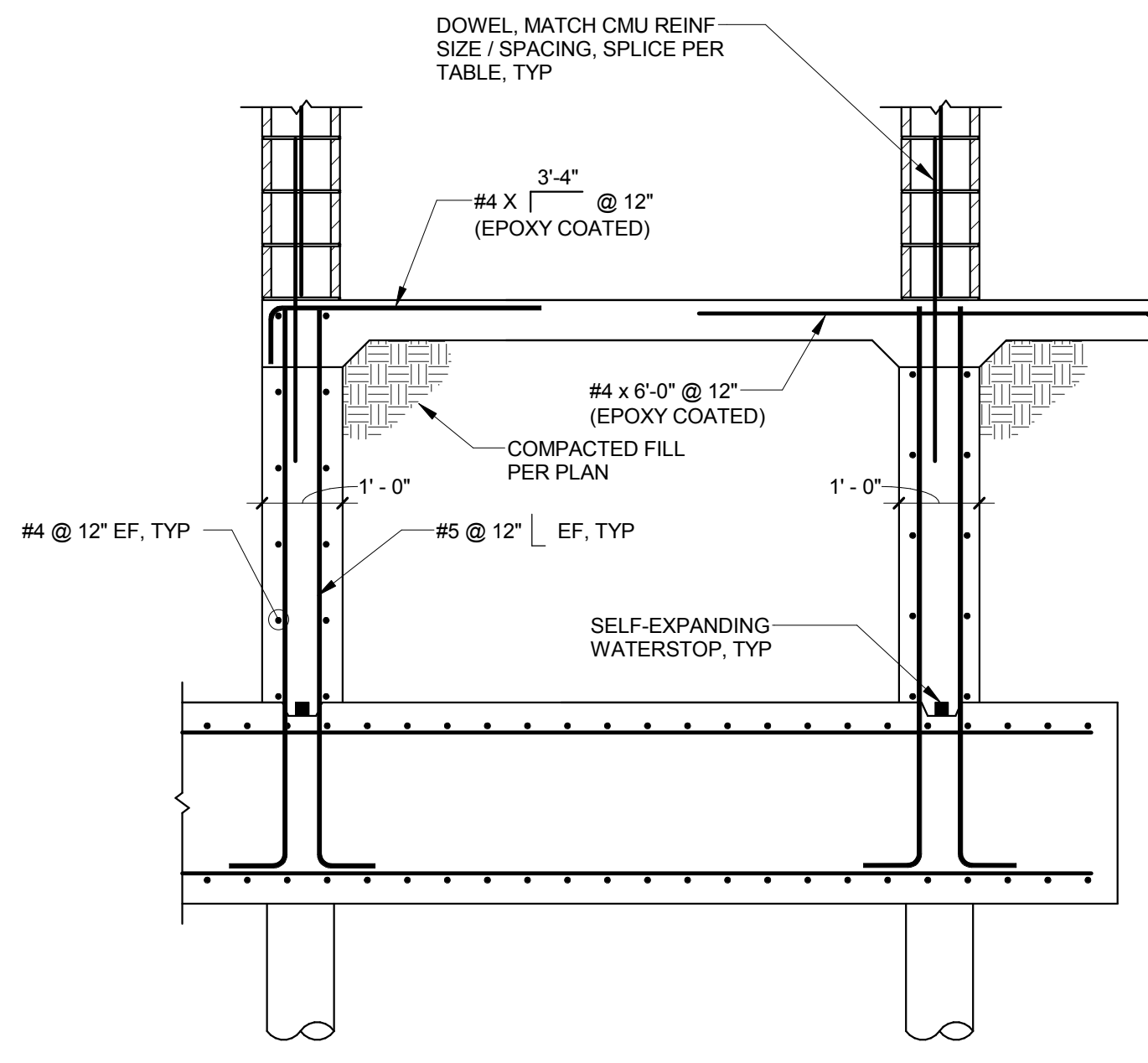
3 SECTION  
1/2" = 1'-0"



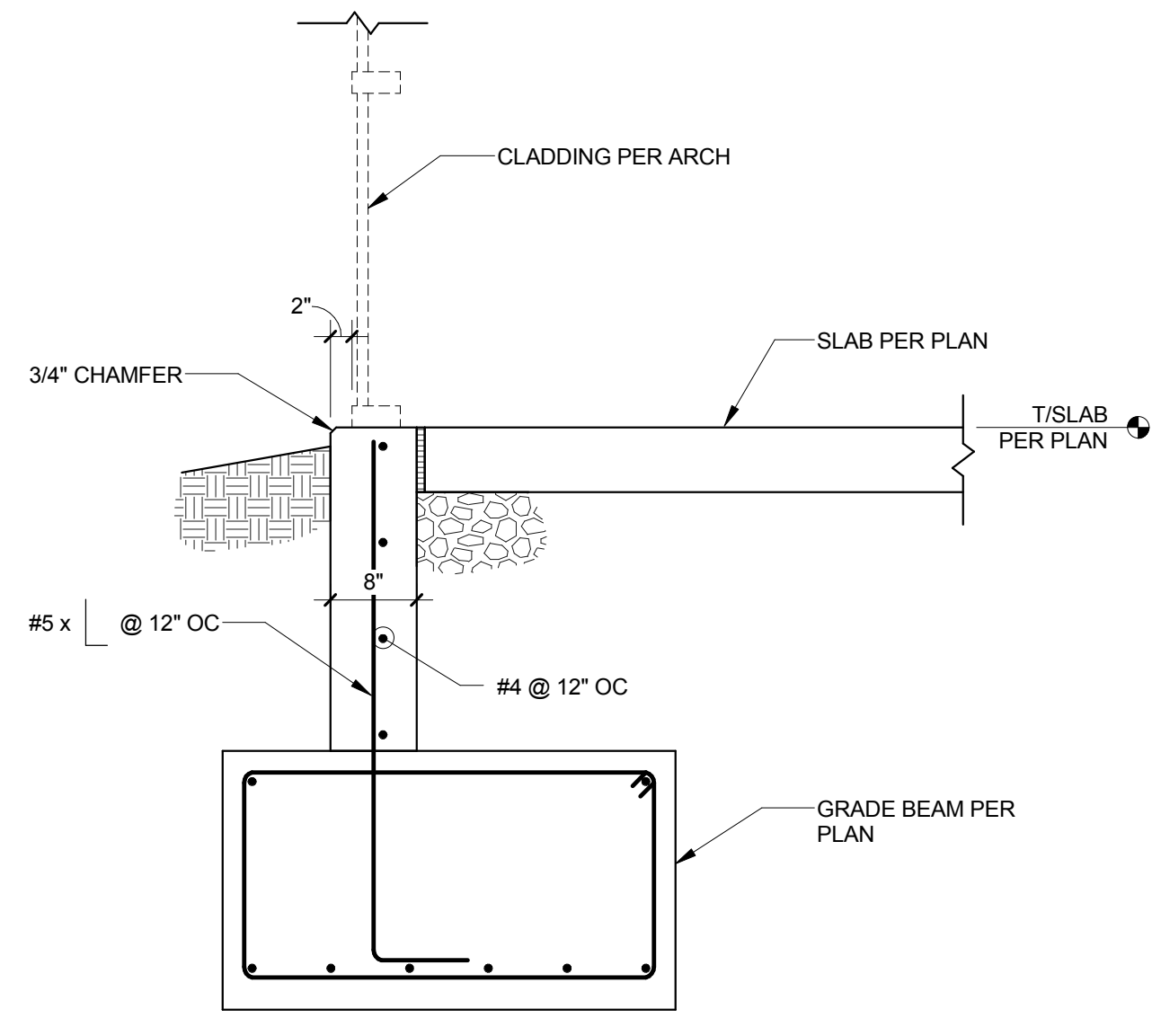
4 SECTION  
1/2" = 1'-0"



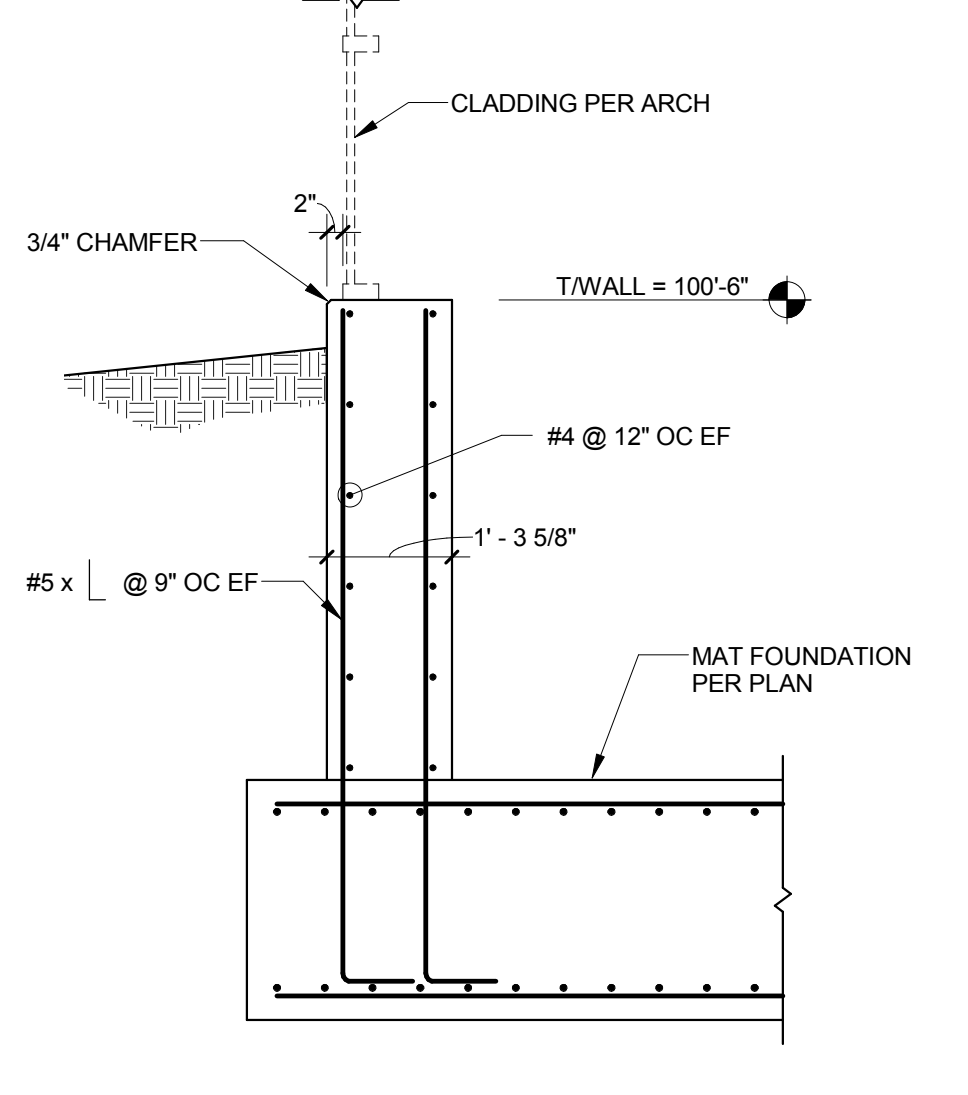
5 SECTION  
1/2" = 1'-0"



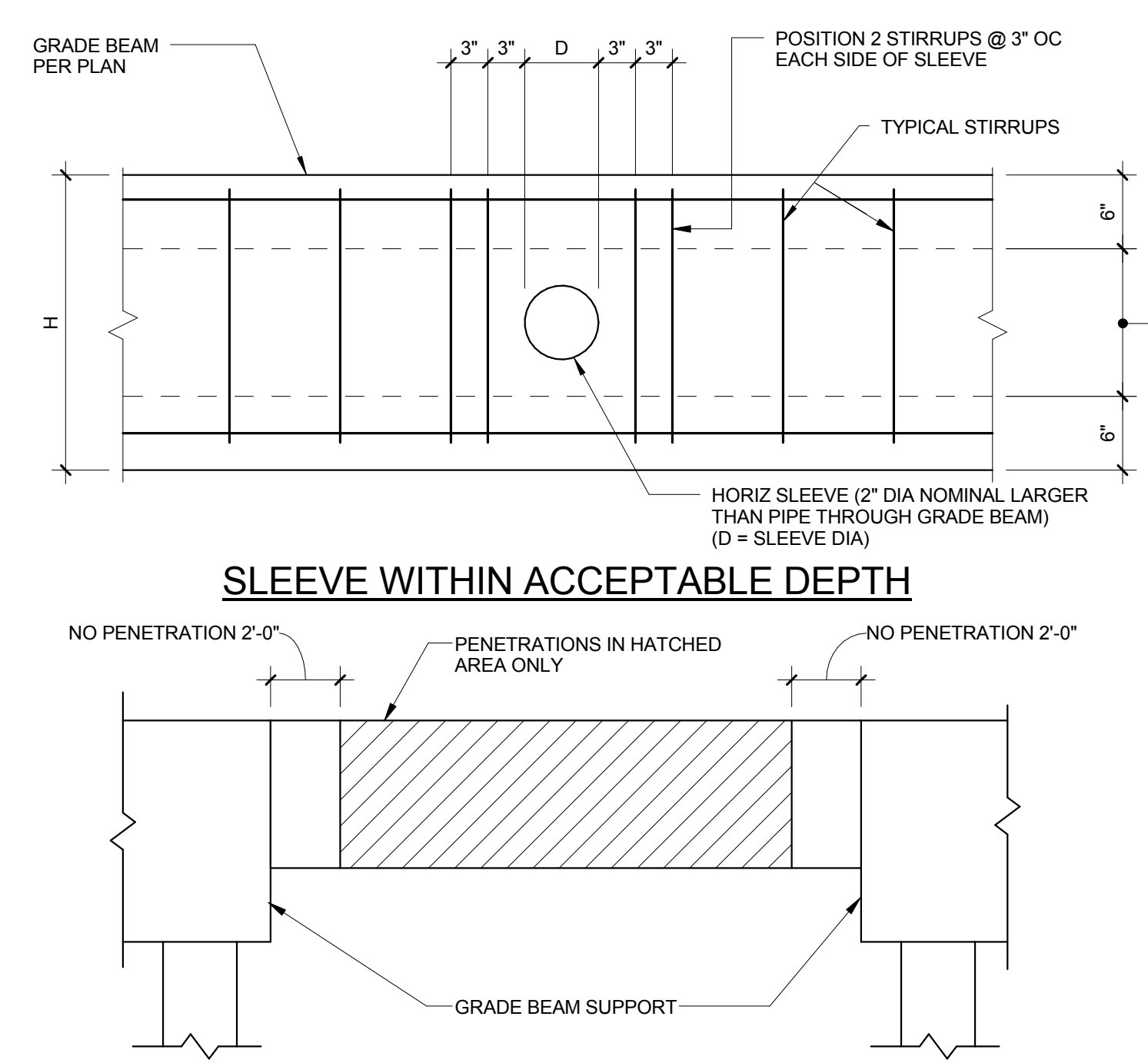
6 SECTION  
1/2" = 1'-0"



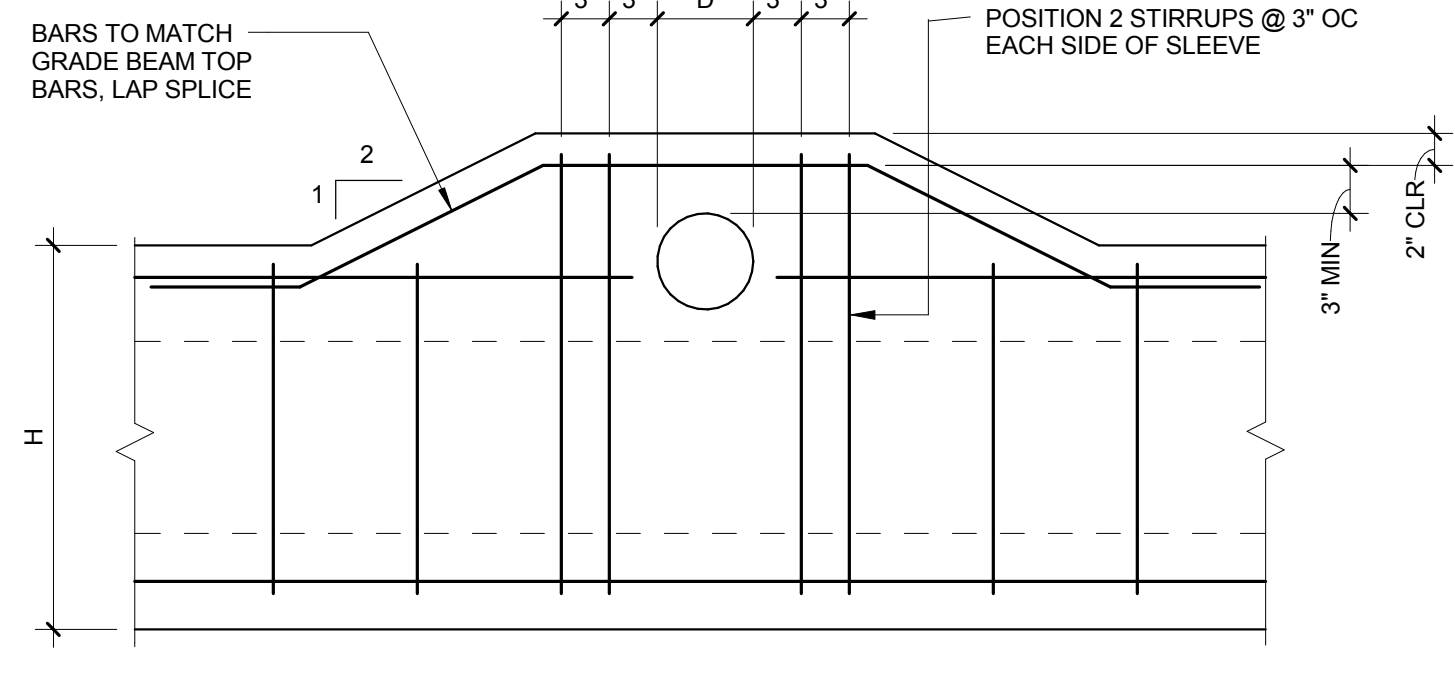
7 SECTION  
3/4" = 1'-0"



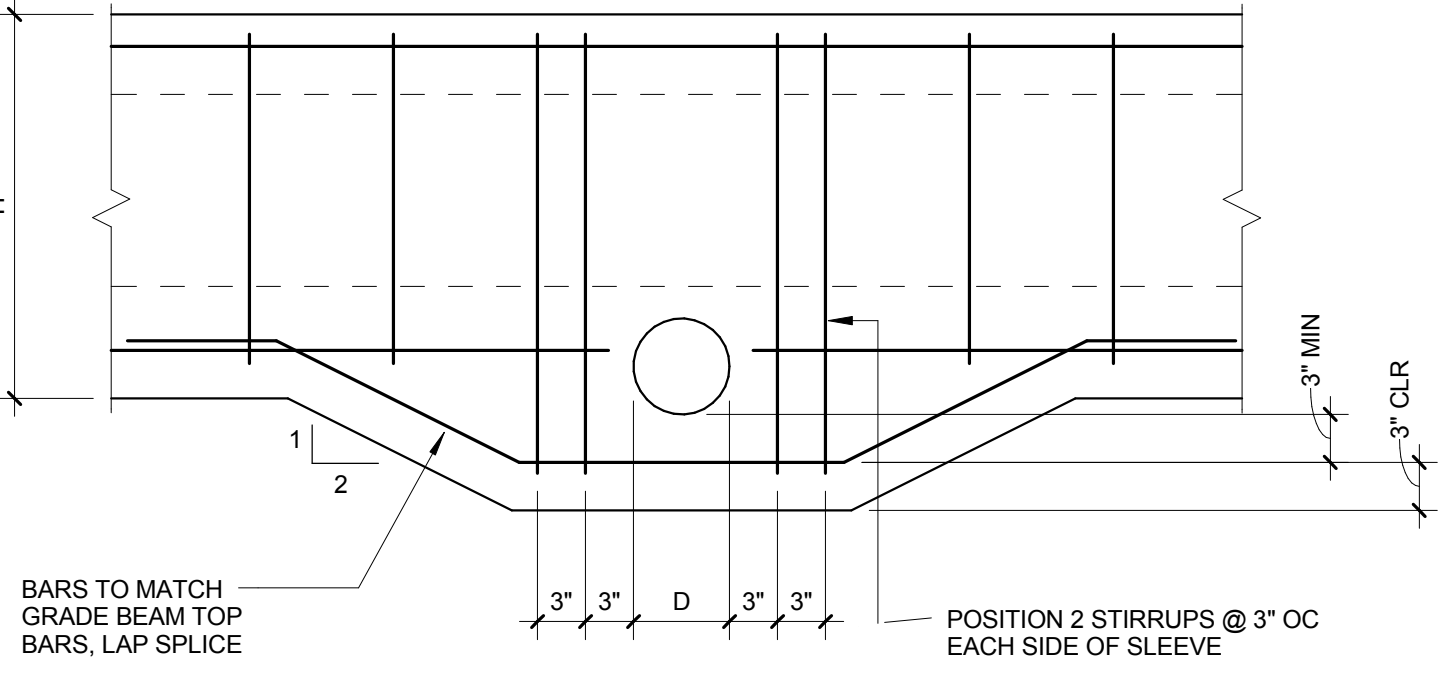
8 SECTION  
1/2" = 1'-0"



9 TYPICAL PIPE SLEEVE PENETRATION THROUGH GRADE BEAM  
S-403 N.T.S.



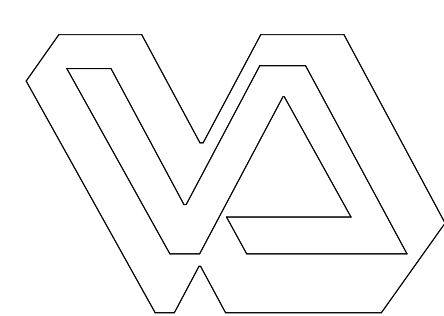
SLEEVE ABOVE ACCEPTABLE DEPTH



SLEEVE BELOW ACCEPTABLE DEPTH

- NOTES:
1. CONCRETE CONTRACTOR SHALL COORDINATE ALL PIPING RUNS AND ELEVATIONS WITH PLUMBING CONTRACTOR PRIOR TO CONSTRUCTION.
  2. CONCRETE CONTRACTOR SHALL PROVIDE SCHEDULE 40 PVC PIPE SLEEVES AT ALL PIPING PENETRATIONS THROUGH GRADE BEAMS. INSTALL AT ELEVATION AND ALIGNMENT AS COORDINATED WITH PLUMBING.
  3. D<sub>max</sub> = H/6
  4. ALL SLEEVES THROUGH GRADE BEAMS MUST BE SUBMITTED TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

1 ADDENDUM #1	4/10/2014
Revisions:	Date



Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501



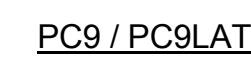
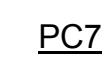
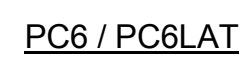
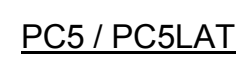
APOGEE  
Consulting Group, PA



PROJECT LEADER/ARCHITECT:  
**GUIDON DESIGN**  
2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
317.800.6388 WWW.GUIDONDESIGN.COM  
SUSTAINABLE ARCHITECTURE + ENGINEERING

ADDENDUM #1 FOR CONSTRUCTION					
Drawing Title FOUNDATION SECTIONS	Project Title PARKING GARAGE	Project Number 12.1042	OFFICE OF FACILITIES MANAGEMENT		
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA MC	Building Number Bldg-39			
Date 4/10/2014	Checked By: JAP	Drawn By: BGC	Drawing Number S-403	VA Project Number 575-206	Department of Veterans Affairs






N.T.S.



NOTES:

1. PROVIDE STANDARD HOOKS AT BOTH ENDS OF BARS
2. DRIVEN PILES PER SPECIFICATION SECTION 316200.



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Medical Center  
2121 North Avenue  
Grand Junction, CO 81501



**APOGEE**  
Consulting Group, PA



**CooverClark**



PROJECT LEADER/ARCHITECT:

**GUIDON**   
DESIGN

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**SUSTAINABLE ARCHITECTURE + ENGINEERING**

ADDENDUM #1 FOR CONSTRUCTION

Drawing Title	PILE / PILE CAP DETAILS / SCHEDULES
---------------	---

Approved for Design Concept:  
John Bartman  
John.Bartman@va.gov  
970-263-5016

Project Title	PARKING GARAGE
---------------	----------------

Location	
----------	--

Date 4/10/2014

Checked By:	Drawn By:
JAP	BGO

Project Number	12.1042
Building Number	Bldg-39

Drawing Number	S-405
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OFFICE OF  
FACILITIES  
MANAGEMENT

A Project Number  
575-206

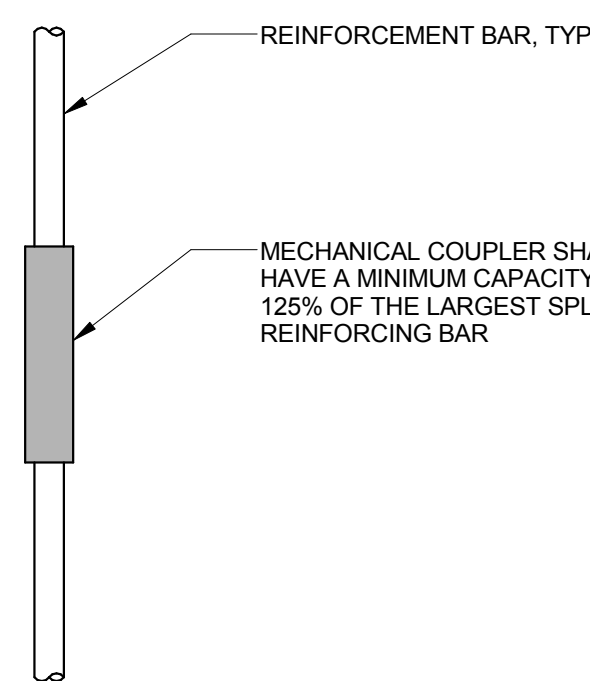


# CONCRETE COLUMN SCHEDULE

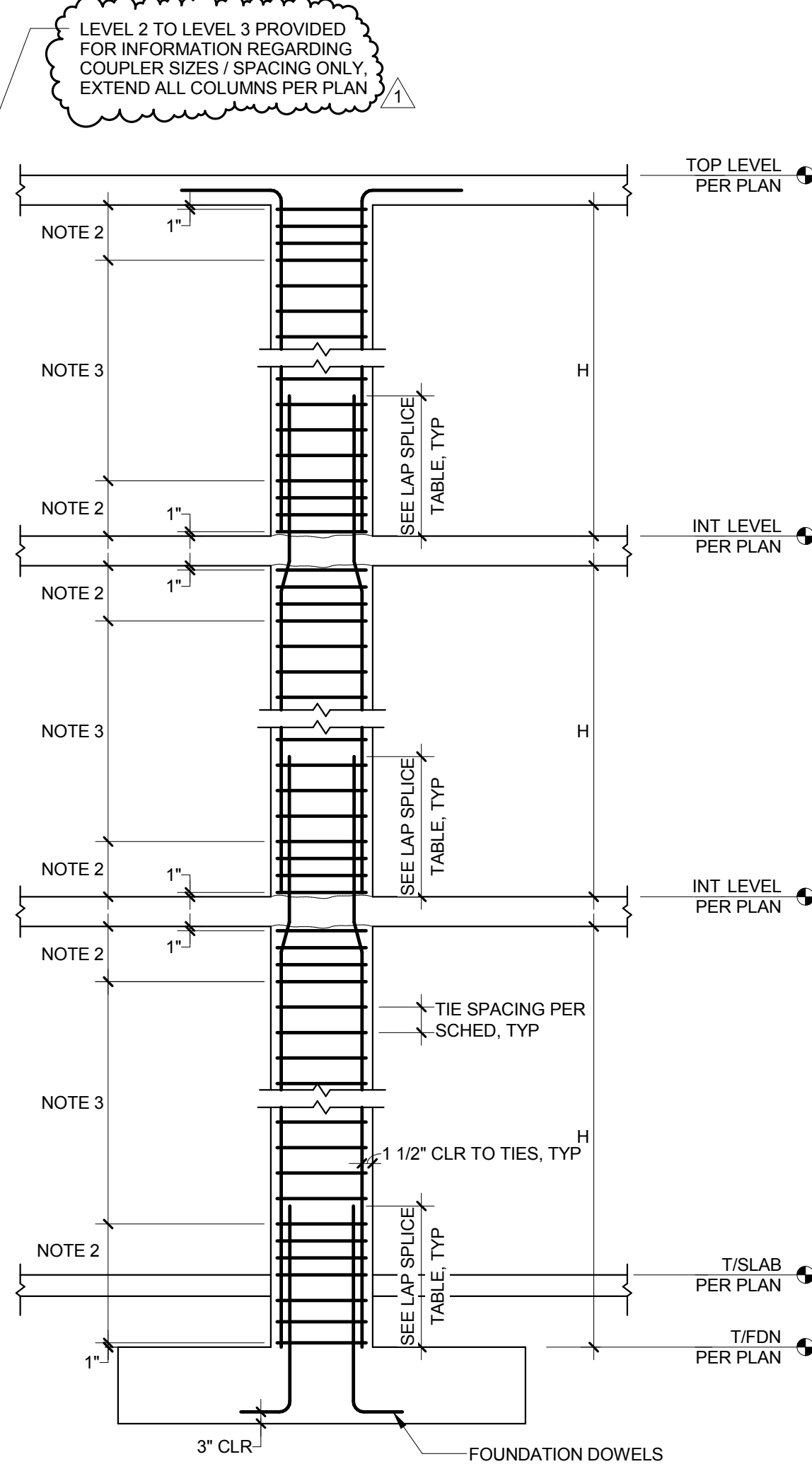
MARK	F1 C1 H8 A6 A9	B1 D1 E1 A5 H5	A7 H7 A8 A10 H10	H13 D13 E13 F13 G13	D2 E2 D4 E4	A2 H2 A3 H3 A4 H4	D5 E5 D7 E7 D8 E8 D9 E9	D11 E11 D12 E12 D13 E13	A12 H12 A13 H13 A14 H14
LEVEL 4	SIZE	-	-	-	-	-	-	-	-
	VERTICAL REINFORCEMENT	-	-	-	-	-	-	-	-
	TIES	-	-	-	-	-	-	-	-
	DETAIL	-	-	-	-	-	-	-	-
LEVEL 3	SPUCE	-	-	-	-	-	-	-	-
	SIZE	24" x 24"	24" x 24"	24" x 24"	24" x 24"	24" x 24"	24" x 24"	24" x 24"	24" x 24"
	VERTICAL REINFORCEMENT	16 - #11	16 - #11	16 - #11	8 - #8	8 - #8	8 - #8	8 - #8	8 - #8
	TIES	#4 @ 9"	#4 @ 9"	#4 @ 9"	#4 @ 9"	#4 @ 9"	#4 @ 9"	#4 @ 9"	#4 @ 9"
	DETAIL	C2	C2	C2	C1	C1	C1	C1	C1
LEVEL 2	SPUCE	MECHANICAL	MECHANICAL	MECHANICAL	MECHANICAL	MECHANICAL	MECHANICAL	MECHANICAL	MECHANICAL
	SIZE	24" x 24"	24" x 24"	24" x 24"	24" x 24"	24" x 24"	24" x 24"	24" x 24"	24" x 24"
	VERTICAL REINFORCEMENT	16 - #11	16 - #11	16 - #11	8 - #8	8 - #8	8 - #8	8 - #8	8 - #8
	TIES	#4 @ 3"	#4 @ 9"	#4 @ 9"	#4 @ 9"	#4 @ 9"	#4 @ 9"	#4 @ 9"	#4 @ 9"
	DETAIL	C2	C2	C2	C1	C1	C1	C1	C1
LEVEL 1	SPUCE	MECHANICAL	MECHANICAL	MECHANICAL	MECHANICAL	MECHANICAL	MECHANICAL	MECHANICAL	MECHANICAL
	SIZE	24" x 24"	24" x 24"	24" x 24"	24" x 24"	24" x 24"	24" x 24"	24" x 24"	24" x 24"
	FOUNDATION DOWELS	16 - #11	16 - #11	16 - #11	8 - #8	8 - #8	8 - #8	8 - #8	8 - #8
	DETAIL	C2	C2	C2	C1	C1	C1	C1	C1

## CONCRETE COLUMN SCHEDULE NOTES:

- SEE SHEET S-002 FOR GENERAL NOTES REGARDING CONCRETE AND STEEL REINFORCING.
- SEE FOUNDATION PLAN FOR TOP OF FOUNDATION ELEVATION.
- SEE FRAMING PLANS FOR TOP OF COLUMN ELEVATIONS.
- "MECHANICAL" INDICATES MECHANICAL COUPLER BUTT SPLICE.
- SEE S-412 FOR RAMP COLUMN REINFORCEMENT DETAILING.

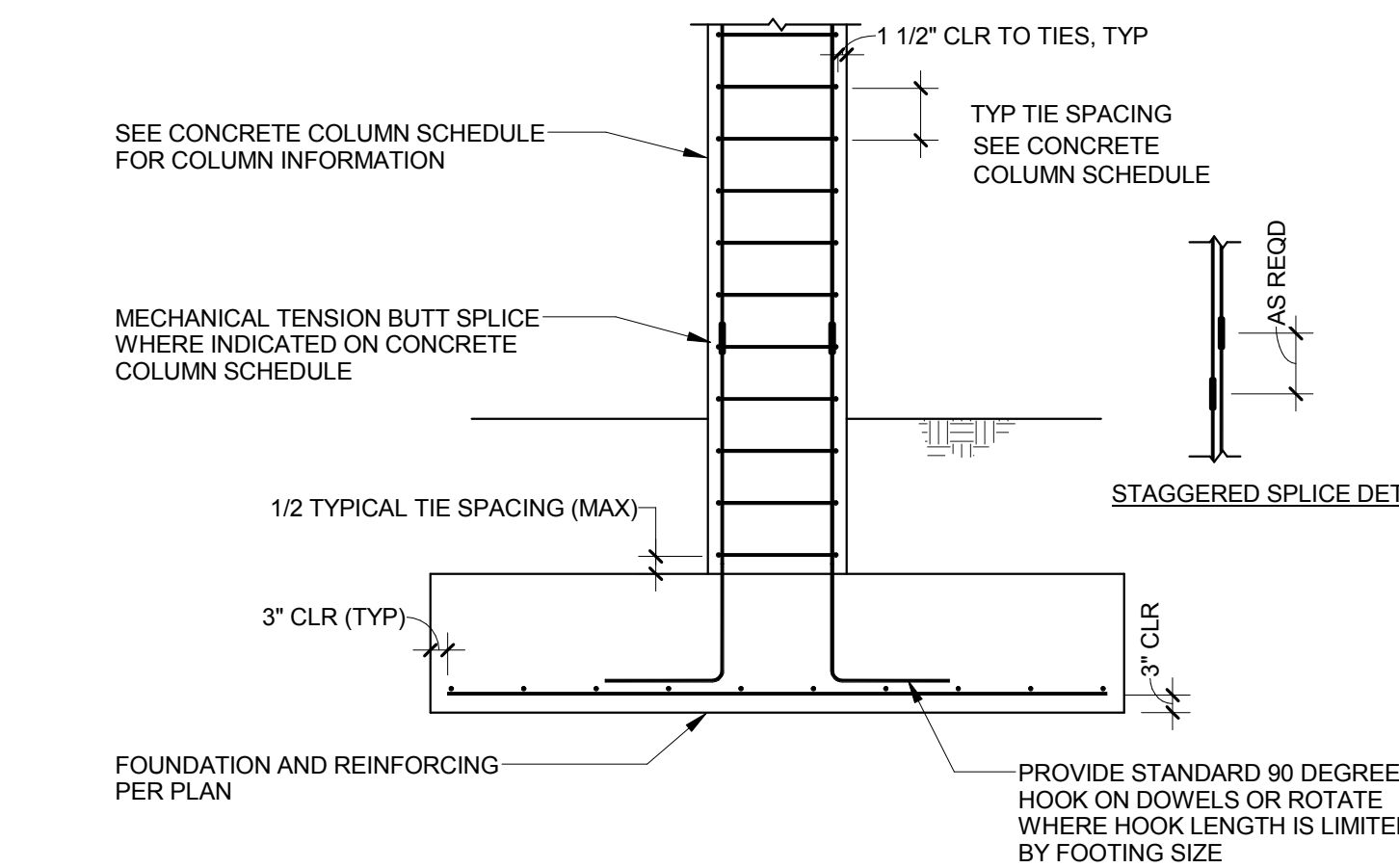


1 MECHANICAL COUPLER DETAIL  
S-411 N.T.S.



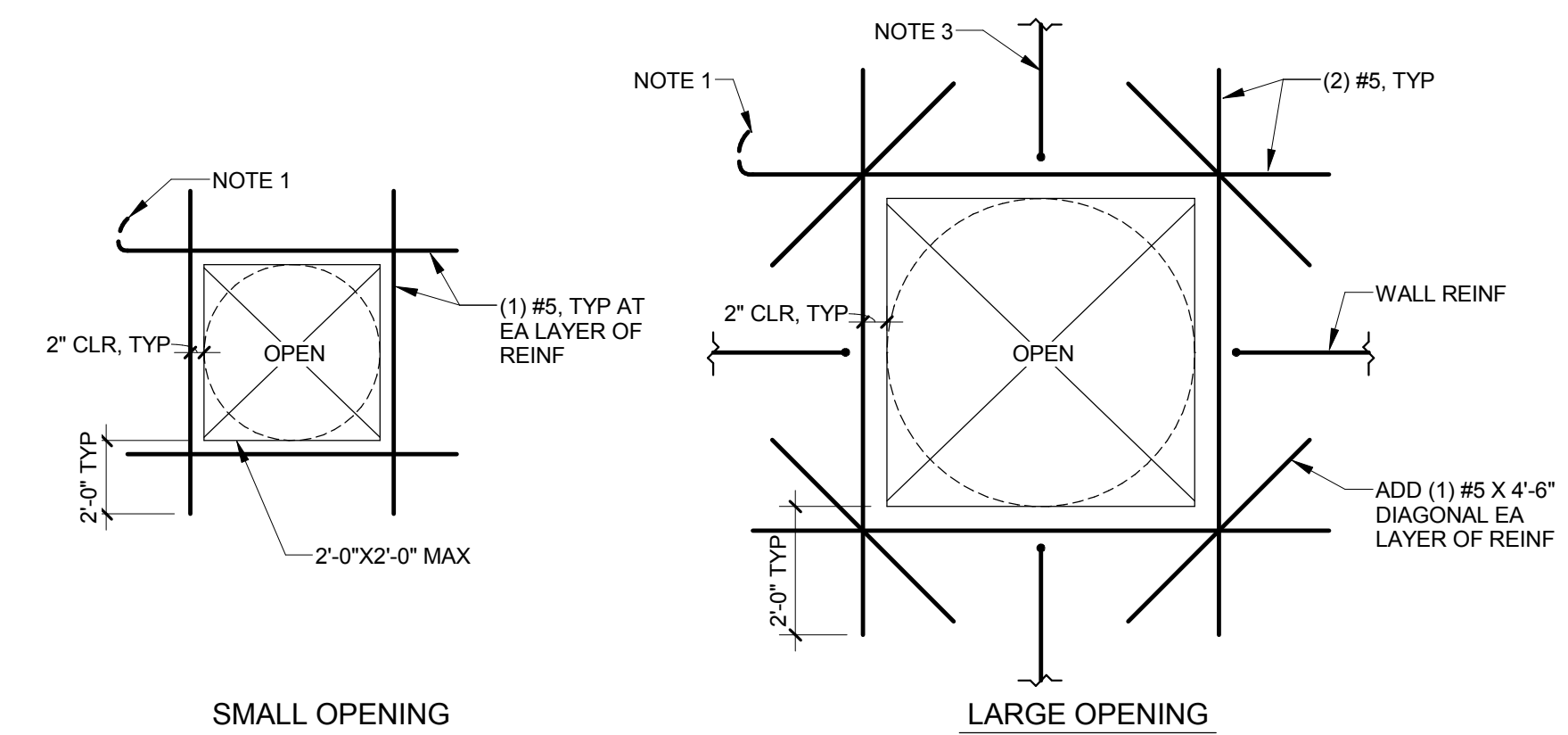
- NOTES:
- SEE CONCRETE COLUMN SCHEDULE FOR SIZE, REINFORCING AND OTHER INFORMATION.
  - 5" TIE SPACING FOR MAX. MAX COLUMN DIMENSION, OR 18" (WHICHEVER IS GREATER).
  - TIE SPACING PER CONCRETE COLUMN SCHEDULE.

2 TYPICAL CONCRETE COLUMN DETAIL  
S-411 N.T.S.



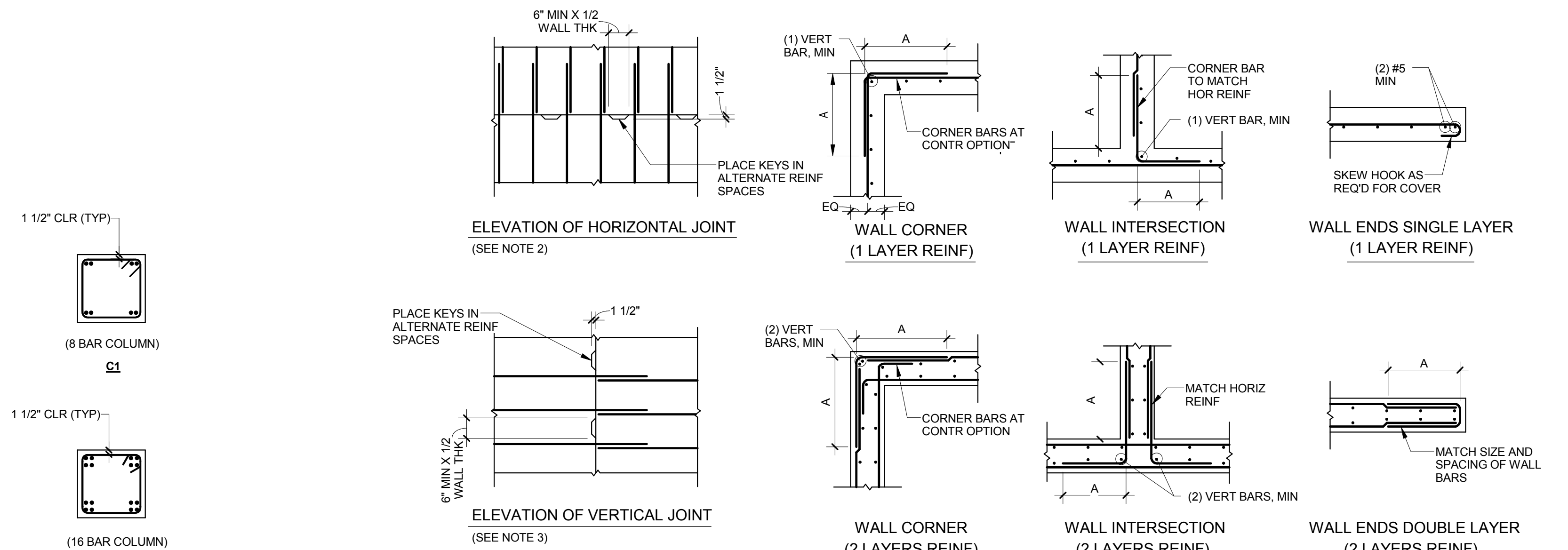
- NOTES:
- PROVIDE FOOTING DOWELS TO MATCH SIZE AND SPACING OF VERTICAL COLUMN REINFORCING.
  - STAGGER LENGTH OF REINFORCING TO ACCOMMODATE MECHANICAL SPLICES.

3 TYPICAL CIP CONCRETE COLUMN FOUNDATION DETAIL  
S-411 N.T.S.



- NOTES:
- PROVIDE STANDARD HOOK WHEN EDGE OF WALL IS WITHIN 2'-0" OF OPENING.
  - VERIFY ALL OPENINGS (INCLUDING PIPING/ CONDUIT PENETRATIONS) NOT SHOWN ON STRUCTURAL DRAWINGS WITH THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
  - SEE TYPICAL CONCRETE WALL REINFORCING DETAILS - WALL ENDS REINFORCING FOR TERMINATION REQUIREMENTS.

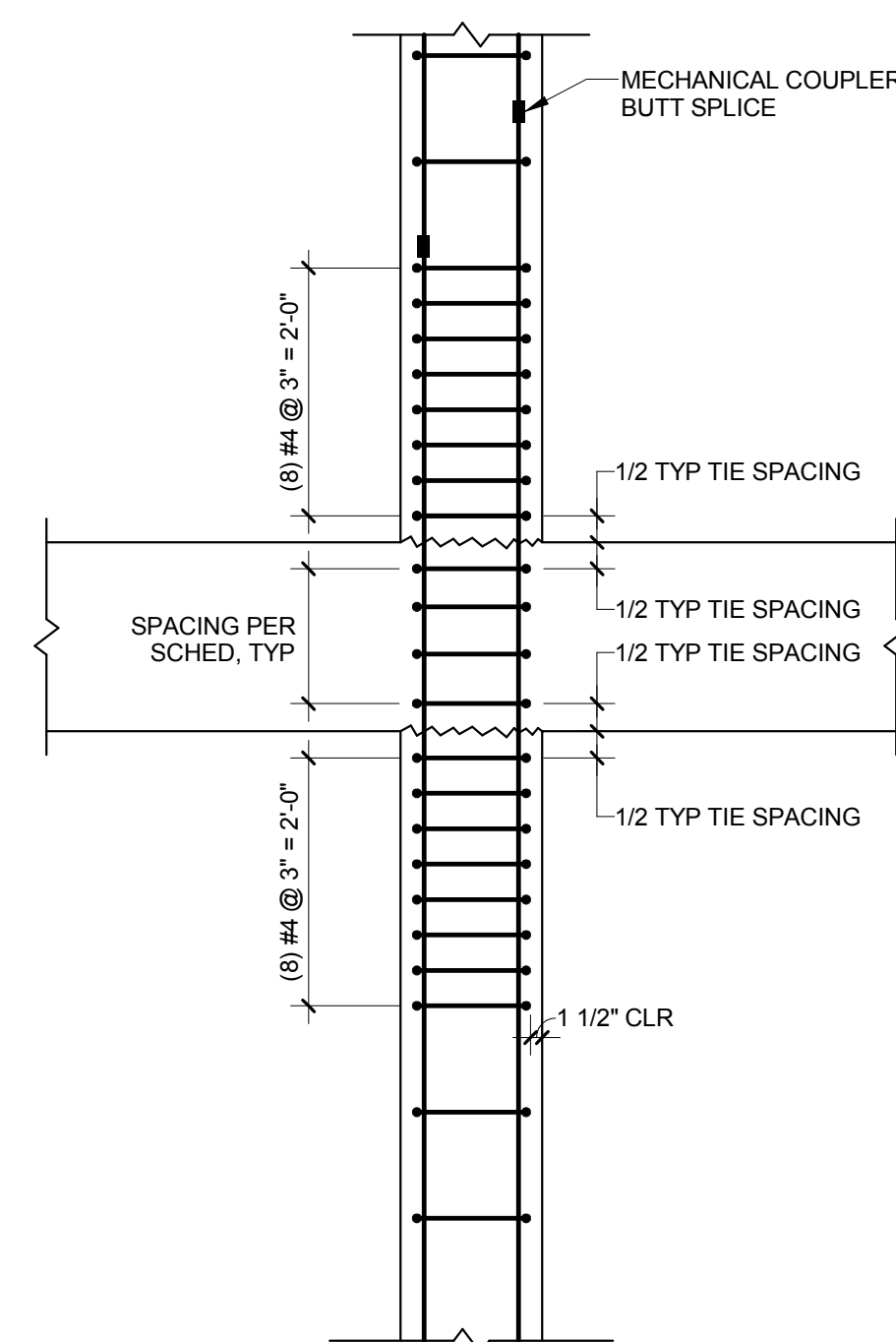
4 TYPICAL CONCRETE WALL OPENING DETAILS  
S-411 N.T.S.



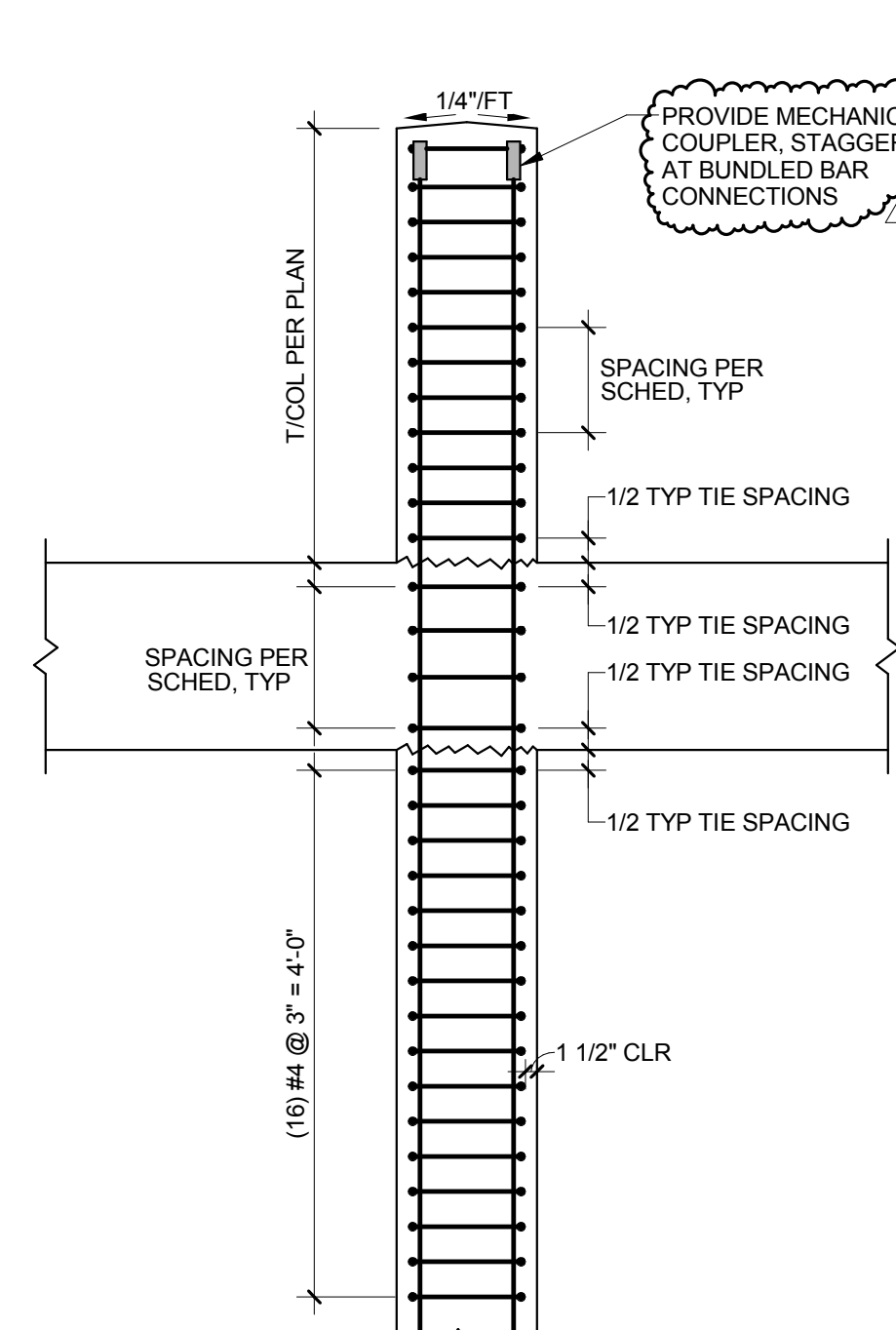
- NOTES:
- "A" INDICATES LAP SPLICE. SEE TYPICAL LAP SPLICE TABLES.
  - PROVIDE KEYED HORIZONTAL JOINT AT SHEAR WALLS AND RETAINING WALLS.
  - PROVIDE KEYED VERTICAL JOINT AT SHEAR WALLS.

5 COLUMN BAR LAYOUT  
S-411 N.T.S.

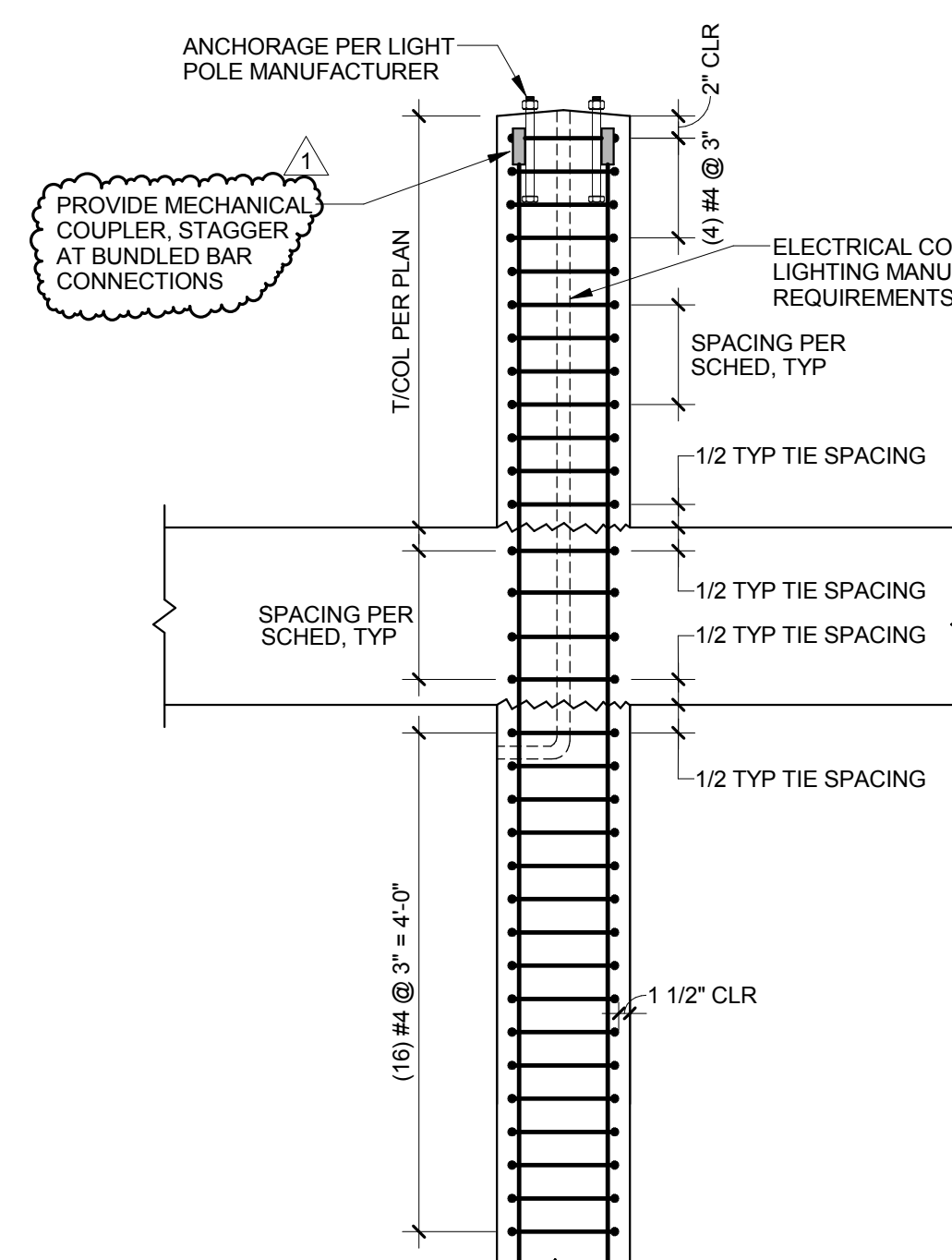
6 TYPICAL CONCRETE WALL REINFORCING DETAILS  
S-411 N.T.S.



7 TYPICAL COLUMN BUTT SPLICE  
S-411 N.T.S.



8 TYPICAL TOP OF EXTENDED COLUMN  
S-411 N.T.S.

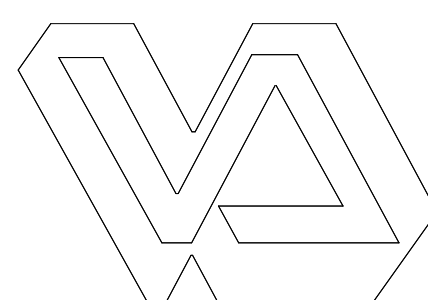


9 TYPICAL TOP OF EXTENDED COLUMN W/ LIGHT POLE  
S-411 N.T.S.

10 TYPICAL TOP OF NON-EXTENDED COLUMN  
S-411 N.T.S.

NOT USED

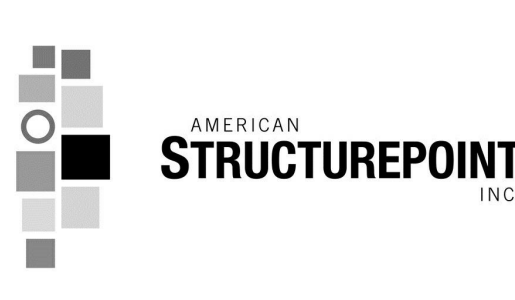
1 ADDENDUM #1	4/10/2014
Revisions:	Date



Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501



CooverClark



PROJECT LEADER/ARCHITECT:

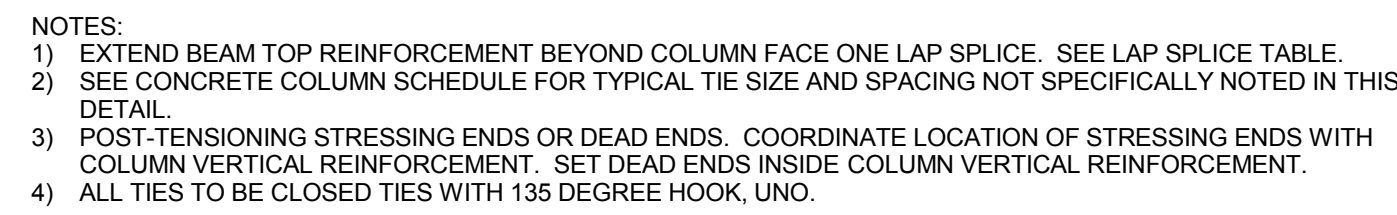
**GUIDON DESIGN**

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SUSTAINABLE ARCHITECTURE + ENGINEERING

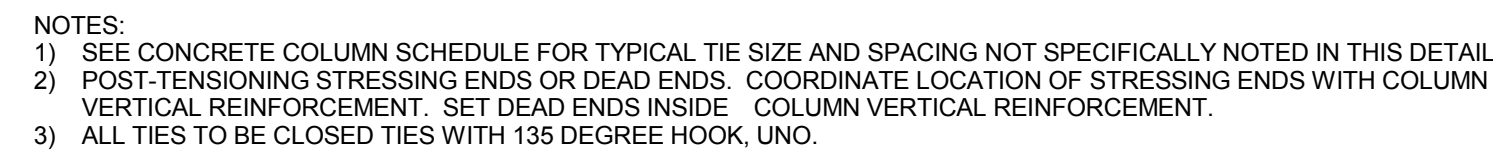
## ADDENDUM #1 FOR CONSTRUCTION

Drawing Title <b>TYPICAL COLUMN AND WALL DETAILS/ SECTIONS</b>	Project Title <b>PARKING GARAGE</b>	Project Number <b>12.1042</b>	Office of Facilities Management
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location <b>Grand Junction VA MC</b>	Building Number <b>Bldg -39</b>	VA Project Number <b>575-206</b>
Date <b>4/10/2014</b>	Checked By: <b>JAP</b>	Drawing Number <b>S-411</b>	Department of Veterans Affairs





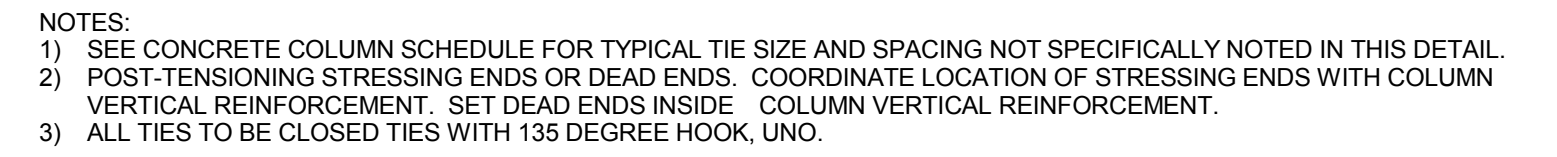
1 TYPICAL COLUMN AT RAMP  
S-412 3/4" = 1'-0"



2  
S-412

TYPICAL COLUMN AT RAMP

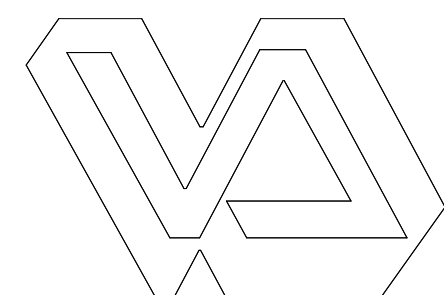
3/4" = 1'-0"



3  
S-412

TYPICAL COLUMN AT RAMP

3/4" = 1'-0"

[illegible]

Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501



**APOGEE**  
Consulting Group, PA



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AMERICAN  
**STRUCTUREPOINT**  
INC.

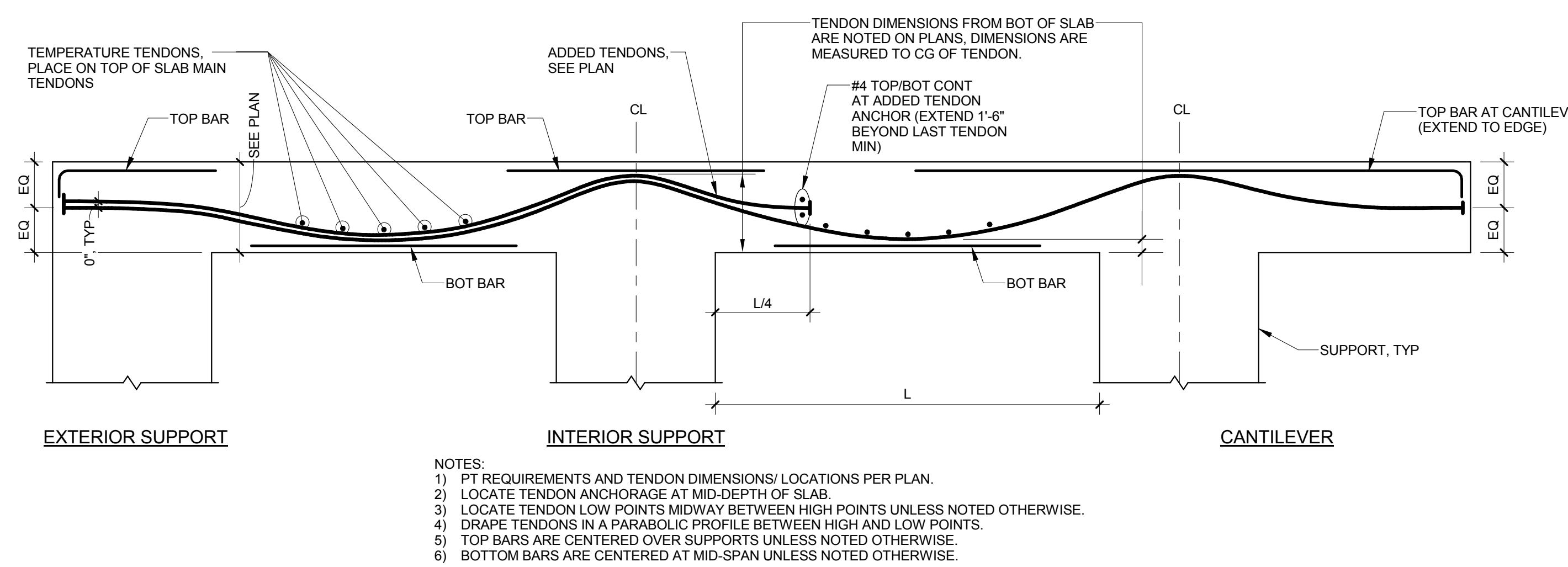
PROJECT LEADER/ARCHITECT:

**GUIDON**   
DESIGN

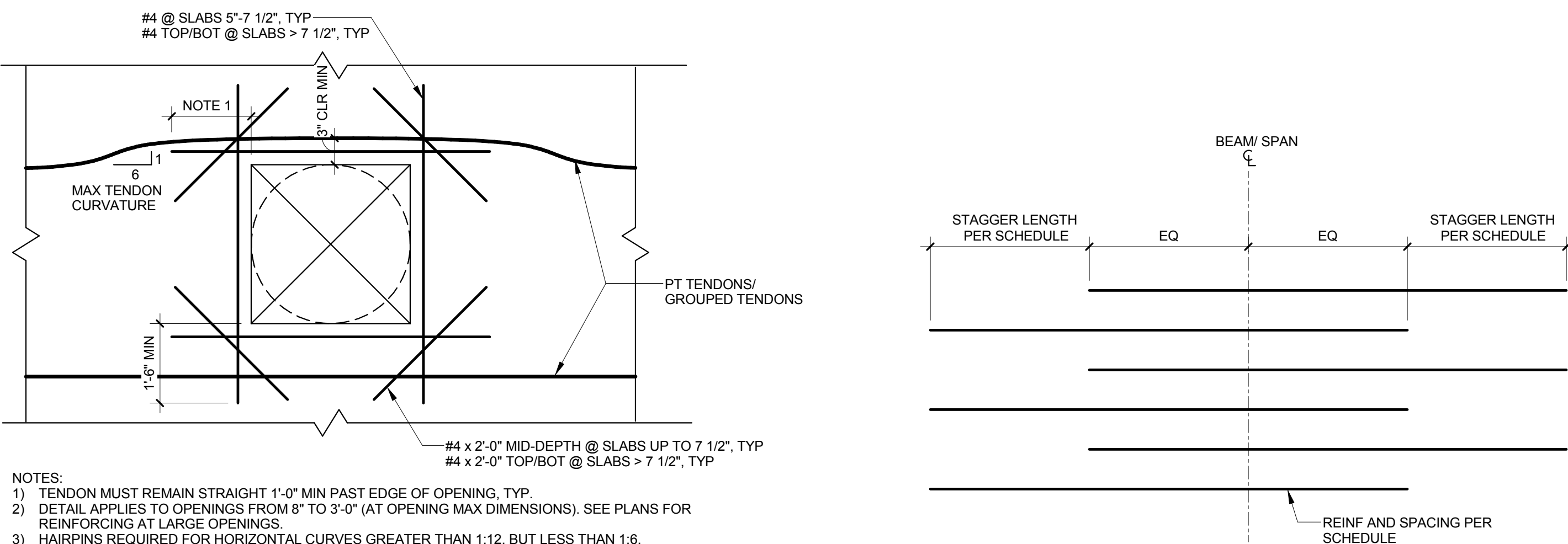
2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
317.800.6388 WWW.GUIDONDESIGN.COM  
**SUSTAINABLE ARCHITECTURE + ENGINEERING**

ADDENDUM #1 FOR CONSTRUCTION

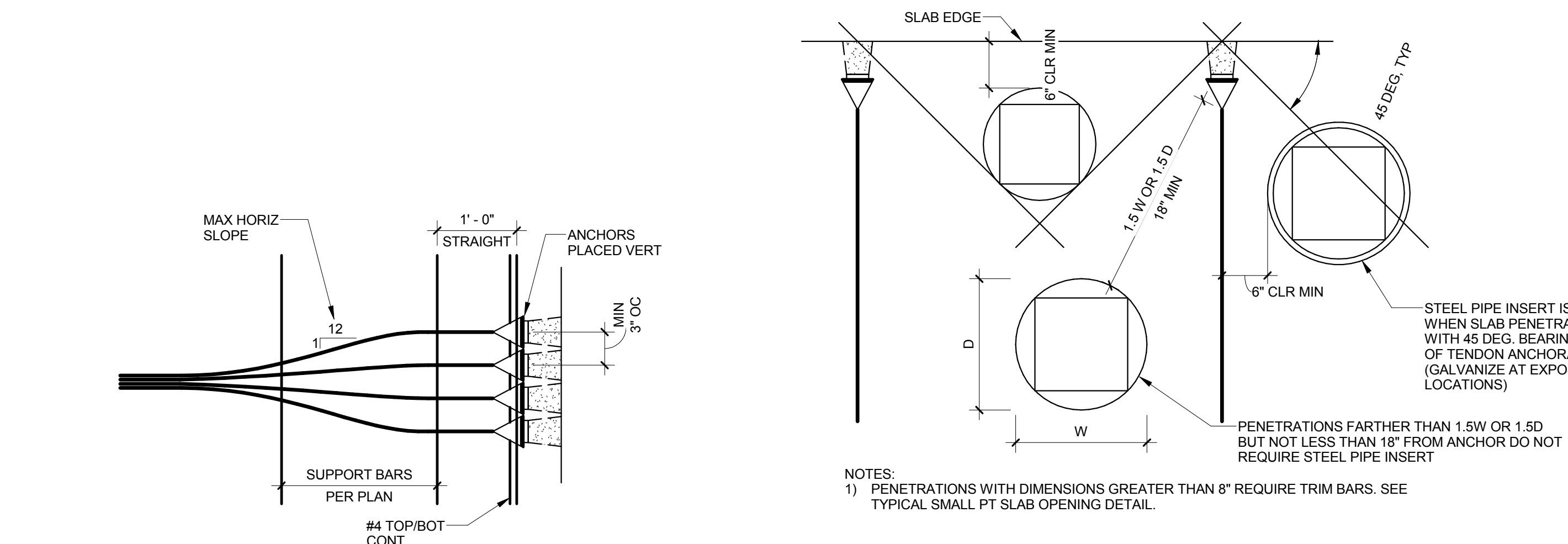
Drawing Title TYPICAL COLUMN DETAILS	Project Title PARKING GARAGE	Project Number 12.1042	OFFICE OF FACILITIES MANAGEMENT
		Building Number Bldg-39	
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA MC	Drawing Number S-412	VA Project Number 575-206
	Date 4/10/2014	Checked By: JAP	 Department of Veterans Affairs
		Drawn By: BGC	



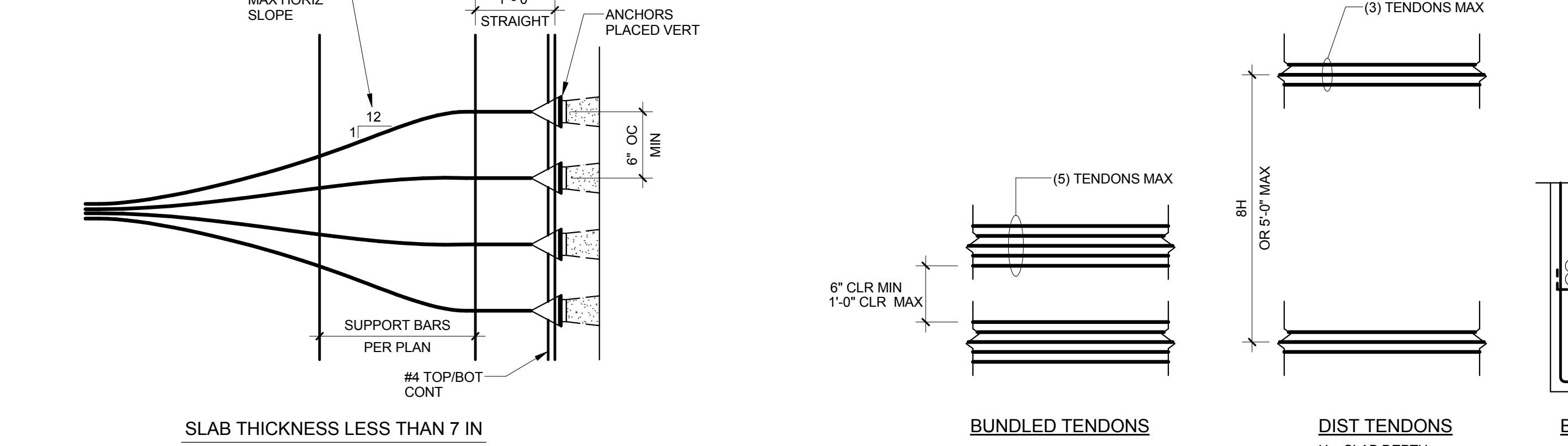
1  
S-421  
TYPICAL POST-TENSIONED SLAB DETAIL  
N.T.S.



5  
S-421  
TYPICAL SMALL PT SLAB OPENING DETAIL  
N.T.S.



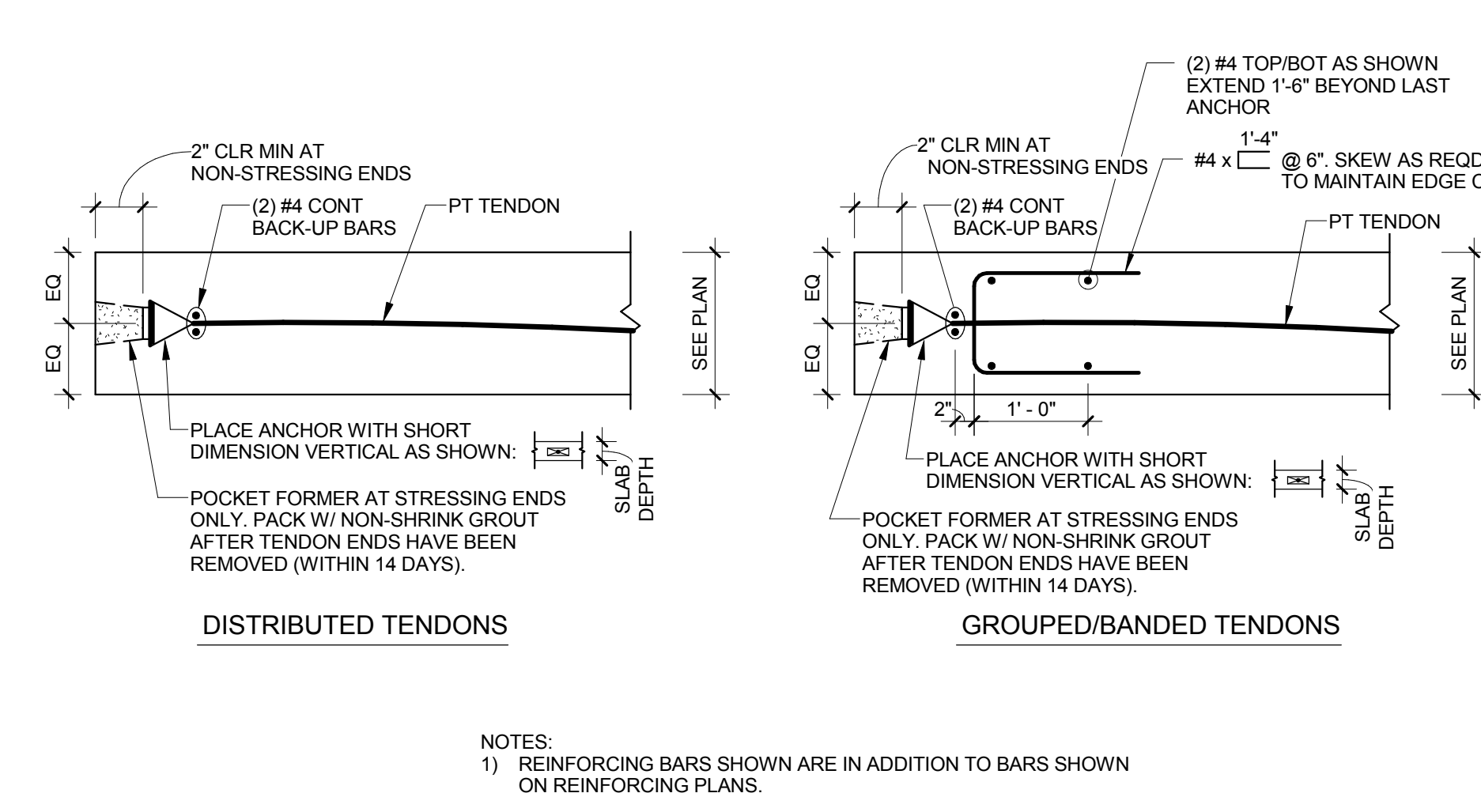
6  
S-421  
TYPICAL MILD REINFORCEMENT STAGGER DETAIL  
N.T.S.



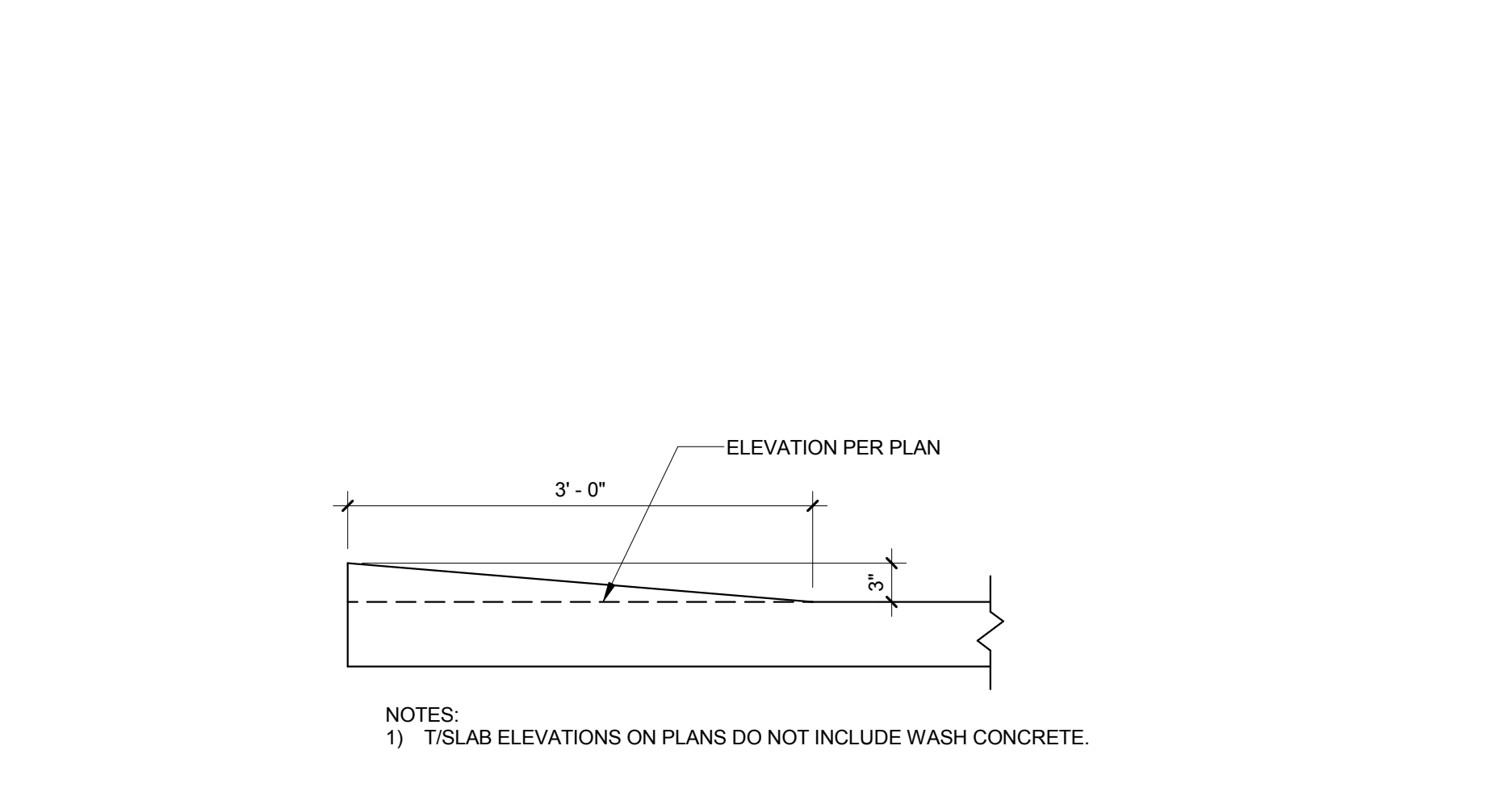
10  
S-421  
HORIZONTAL FLARE AT TENDON ANCHORAGE  
N.T.S.

	Grand Junction VA Medical Center 2121 North Avenue Grand Junction, CO 81501

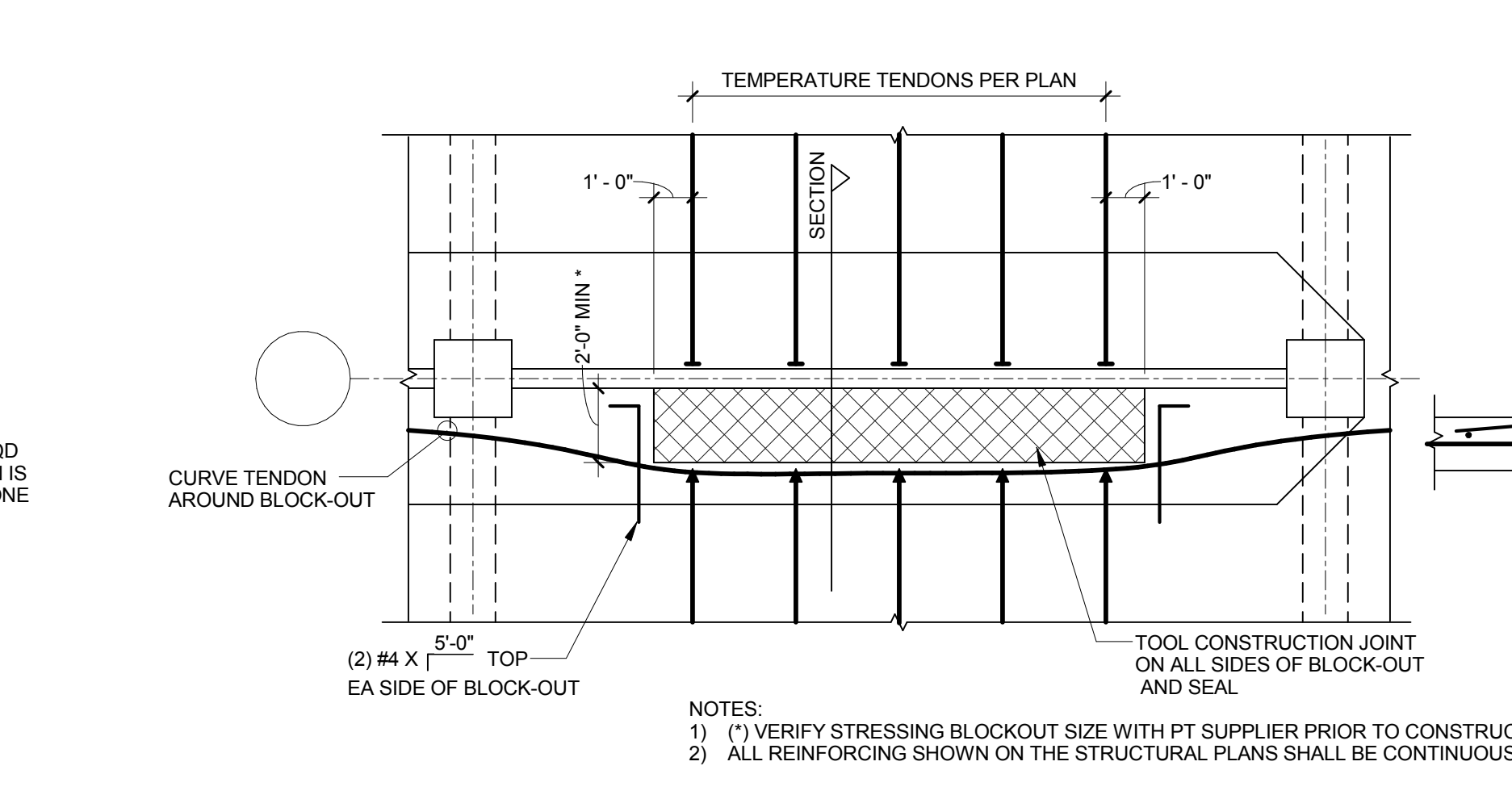
1 ADDENDUM #1  
Revisions:  
Date: 4/10/2014



2  
S-421  
TYPICAL PT SLAB STRESSING ANCHOR DETAIL  
N.T.S.



7  
S-421  
TYPICAL WASH AT (ELEVATED SLAB) EDGE DETAIL  
N.T.S.



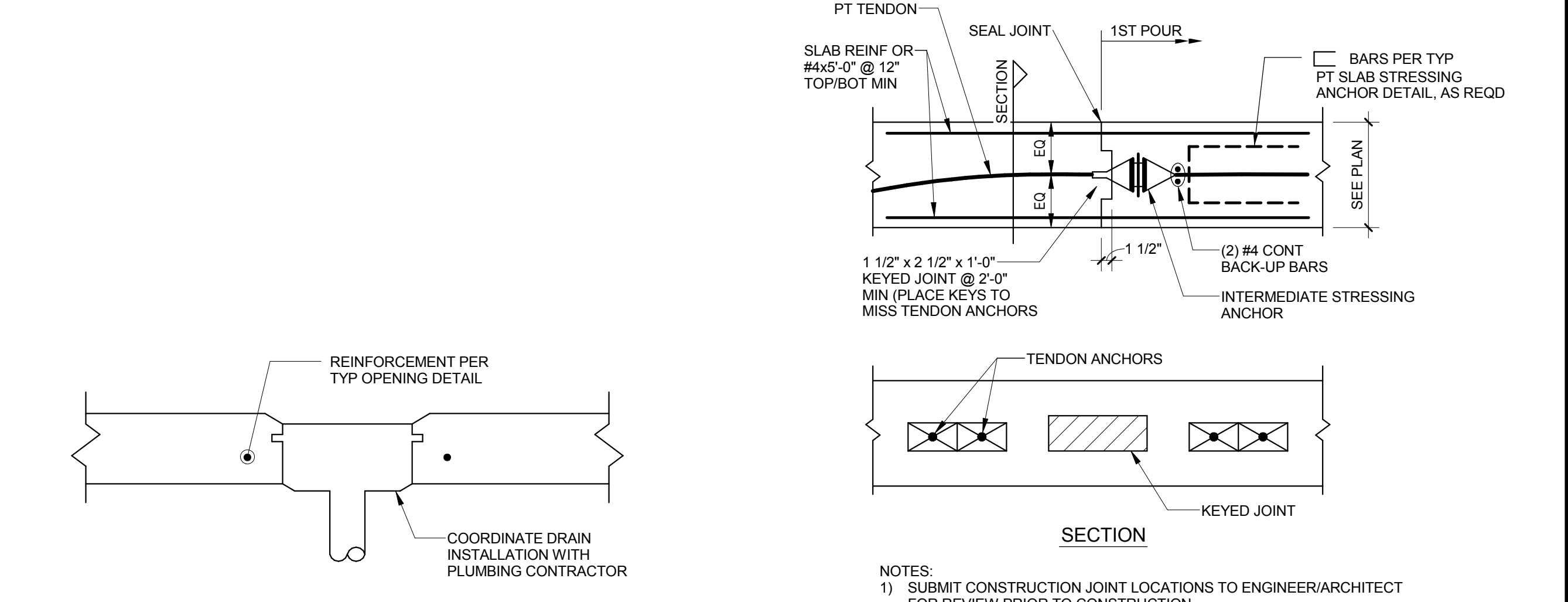
12  
S-421  
TYPICAL STRESSING BLOCKOUT DETAIL  
N.T.S.



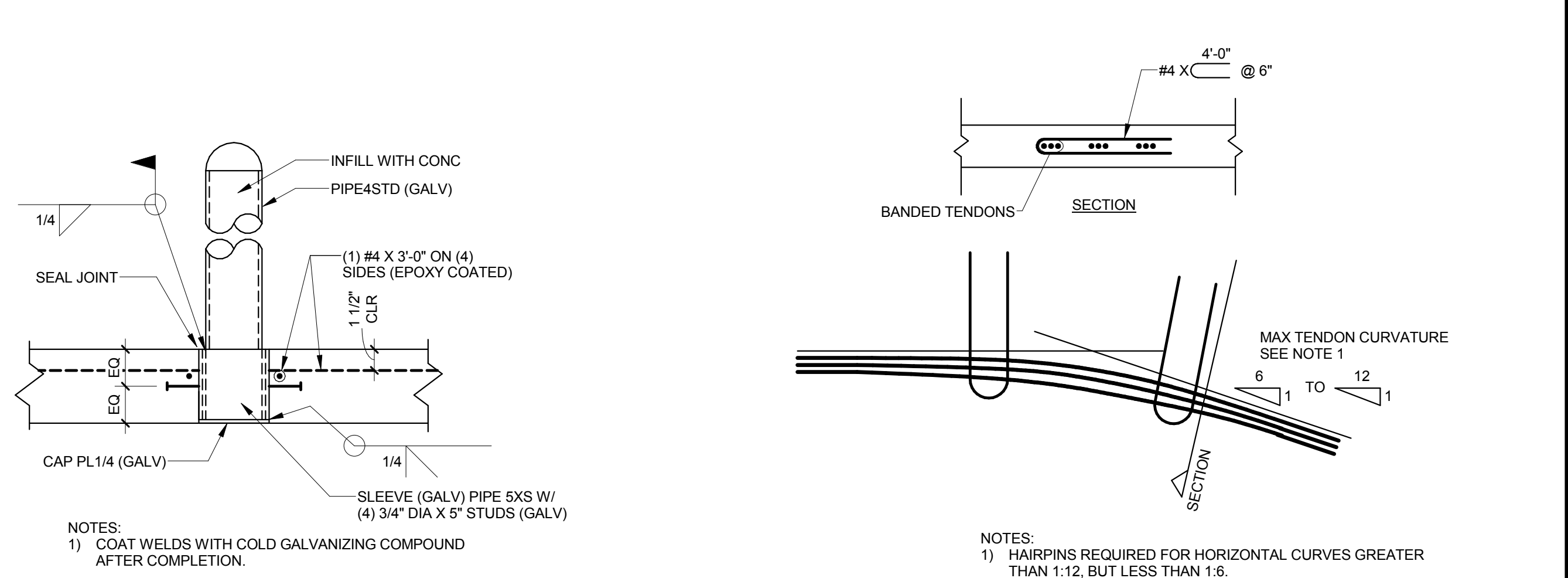
13  
S-421  
TYPICAL CURVED PT DETAIL  
N.T.S.

	APOGEE Consulting Group, PA

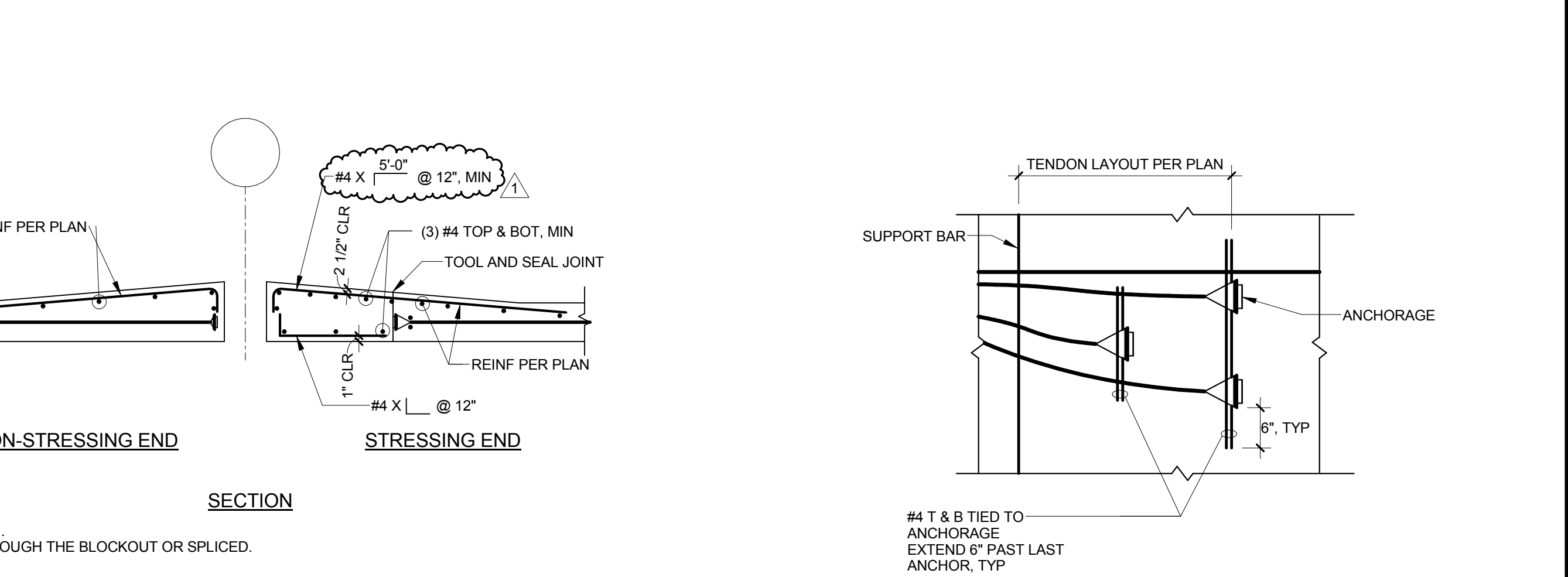
PROJECT LEADER/ARCHITECT:  
**GUIDON DESIGN**  
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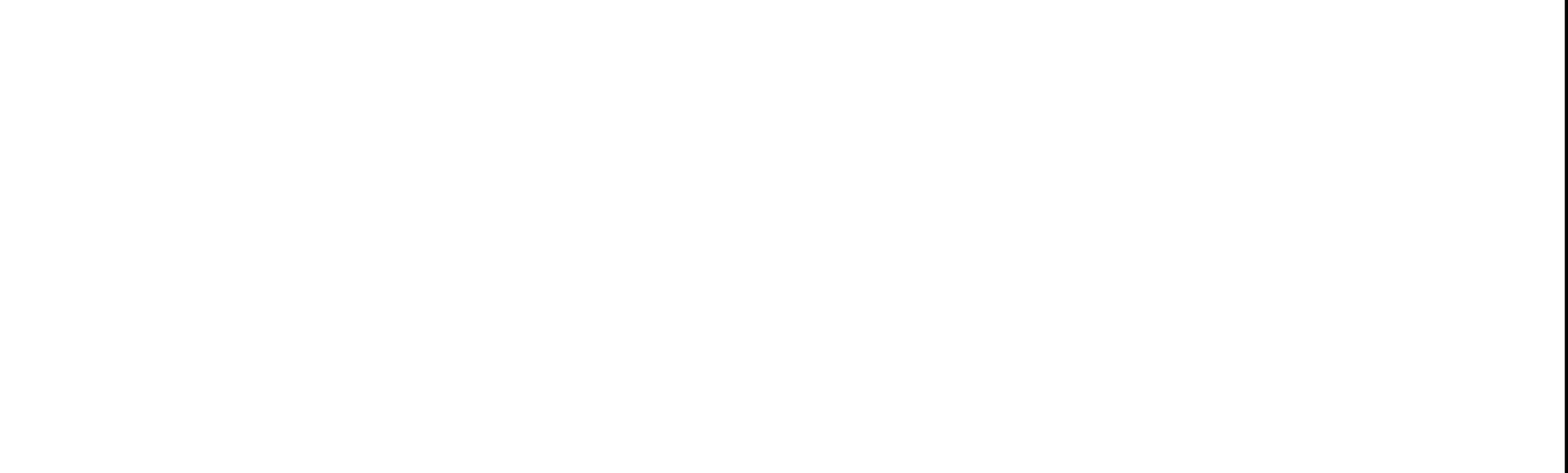
3  
S-421  
FLOOR/ROOF DRAIN (ELEVATED SLAB)  
N.T.S.



8  
S-421  
TYPICAL BOLLARD DETAIL (ELEVATED SLAB)  
N.T.S.



12  
S-421  
TYPICAL STRESSING BLOCKOUT DETAIL  
N.T.S.

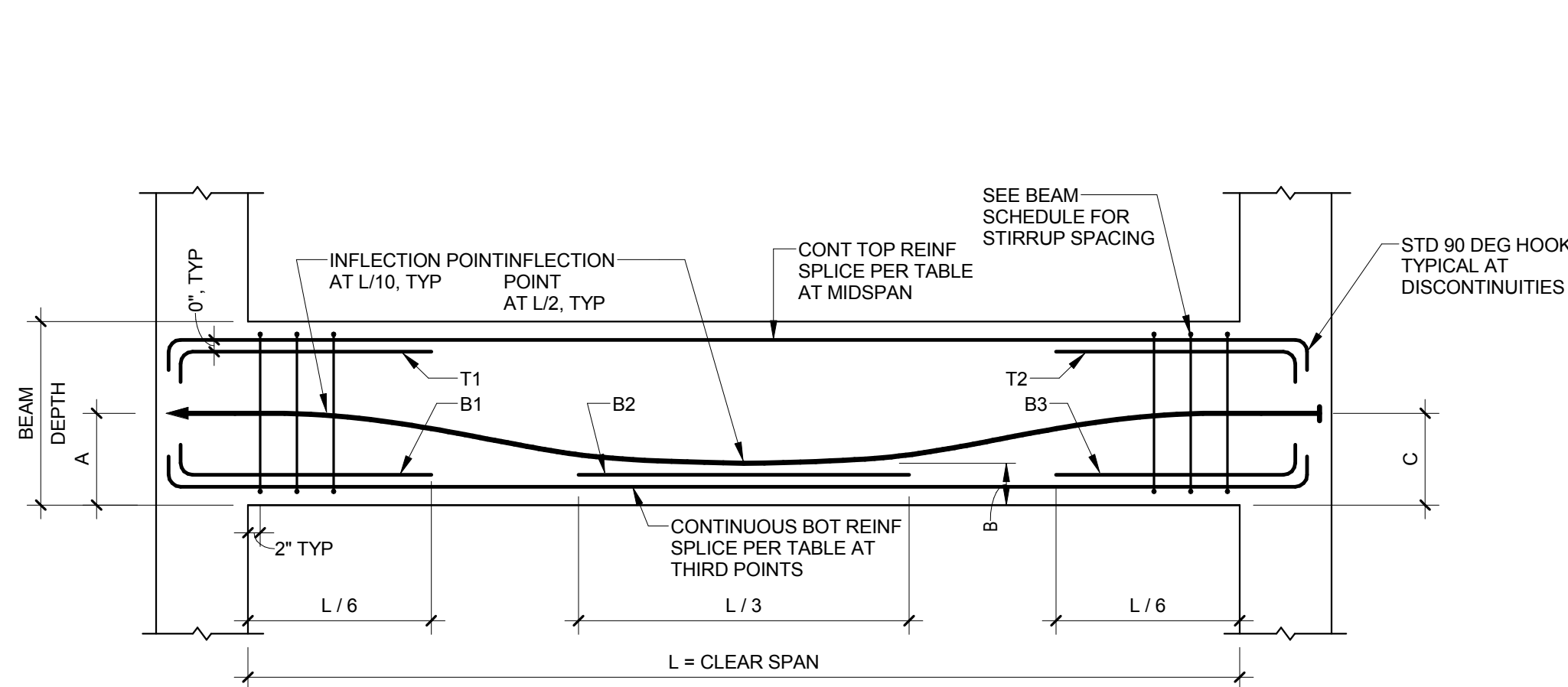


13  
S-421  
TYPICAL CURVED PT DETAIL  
N.T.S.

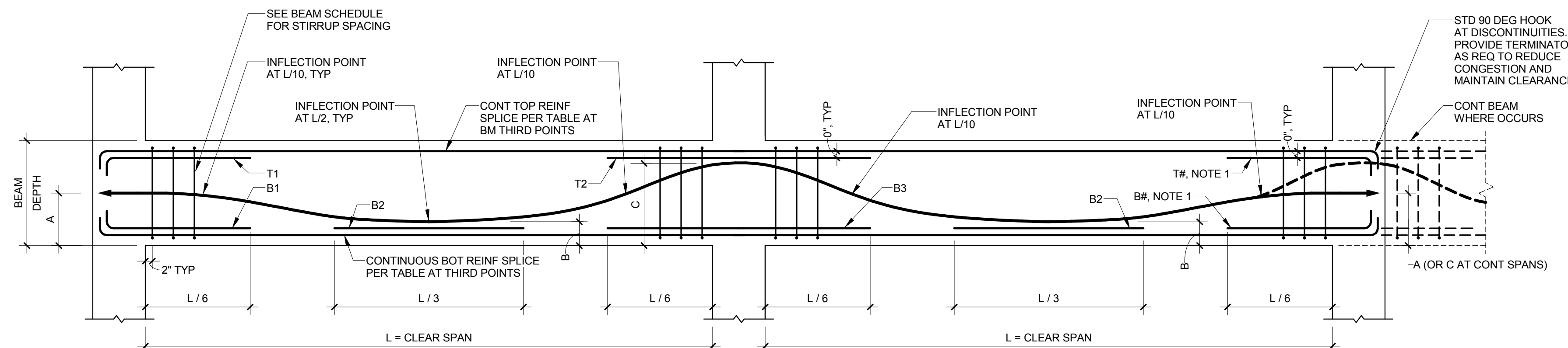
ADDENDUM #1 FOR CONSTRUCTION			
Drawing Title TYPICAL POST-TENSIONED SLAB DETAILS	Project Title PARKING GARAGE	Project Number 12.1042	OFFICE OF FACILITIES MANAGEMENT
		Building Number Bldg-39	
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA MC	Drawing Number S-421	VA Project Number 575-206
		Date 4/10/2014	

Department of Veterans Affairs

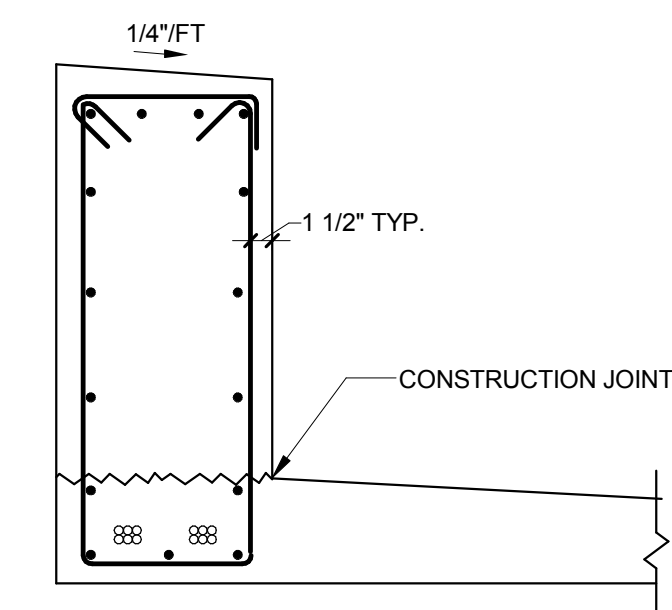




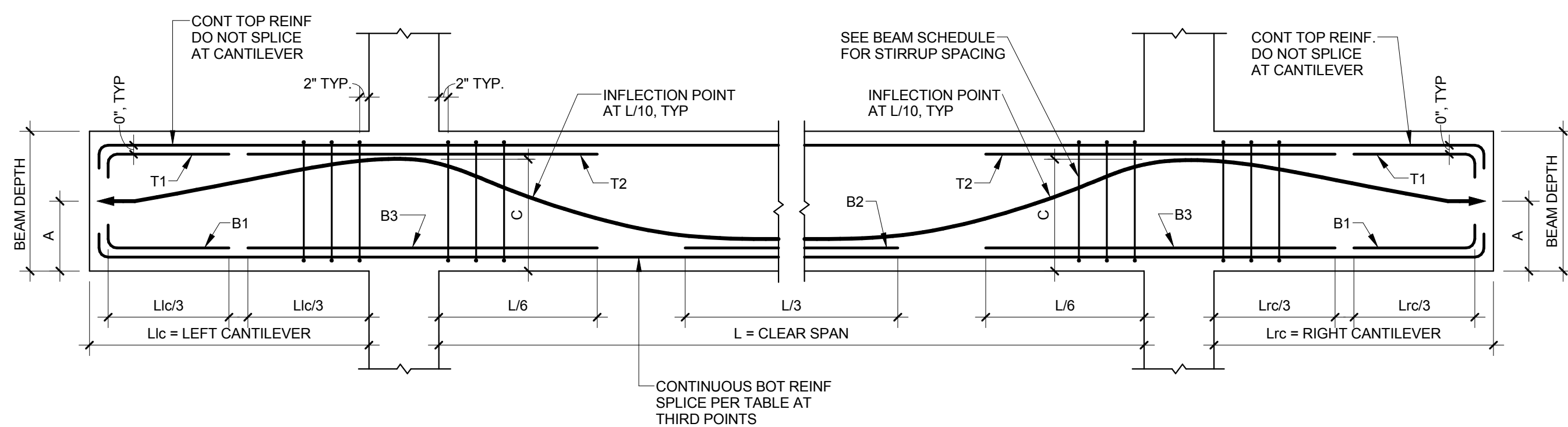
1  
S-431  
TYPICAL SINGLE SPAN POST-TENSIONED BEAM - TYPE 1  
N.T.S.



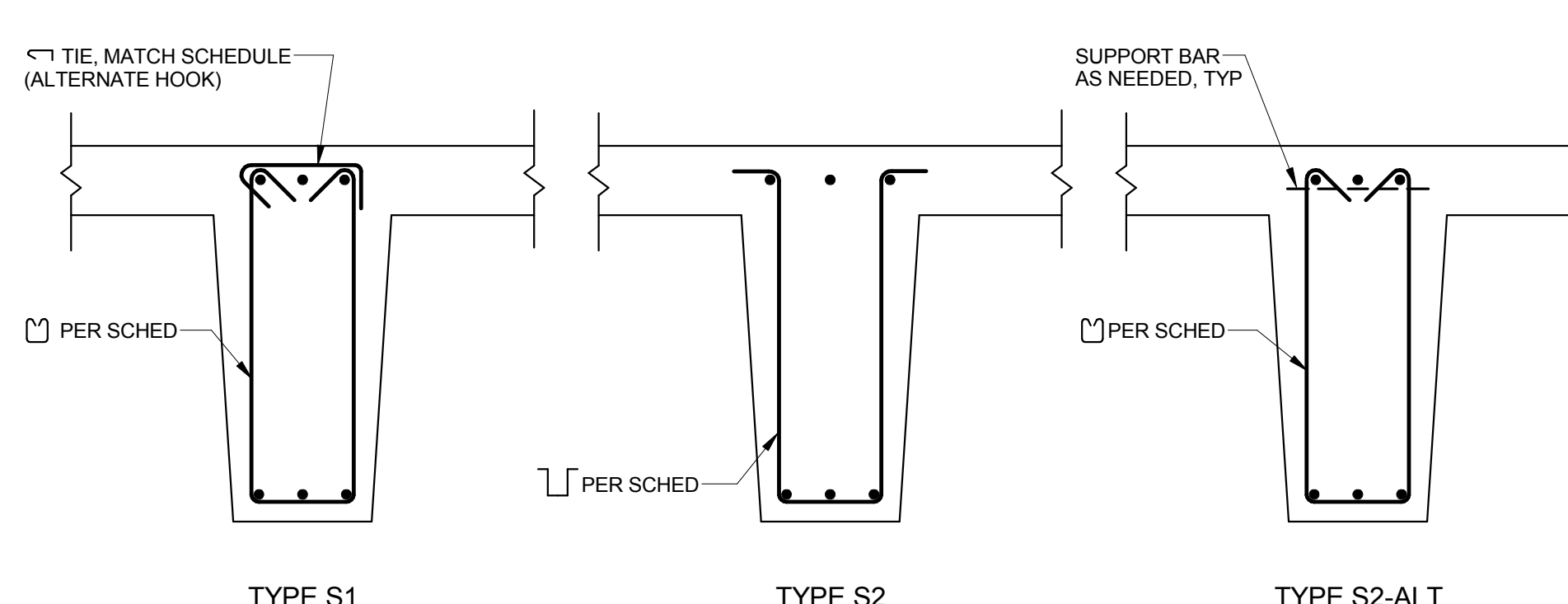
2  
S-431  
TYPICAL MULTI-SPAN POST-TENSIONED BEAM - TYPE 2  
N.T.S.



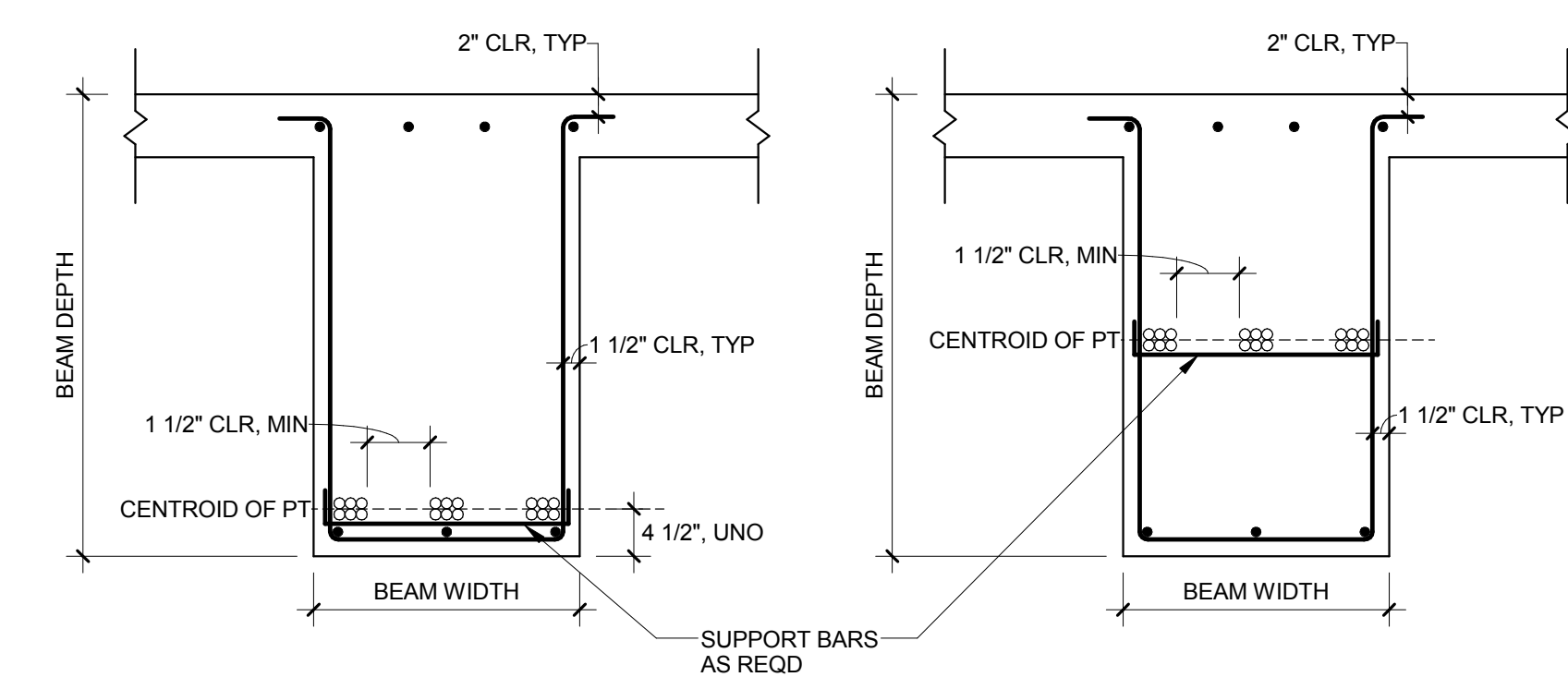
3  
S-431  
TYPICAL POST-TENSIONED UP-TURNED BEAM  
N.T.S.



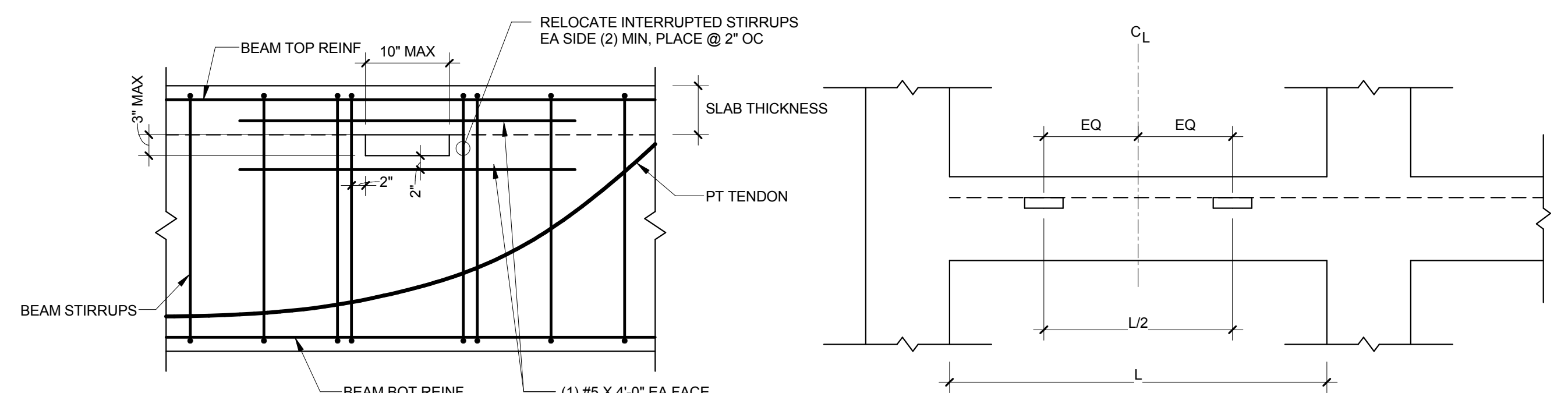
4  
S-431  
TYPICAL CANTILEVERED POST-TENSIONED BEAM - TYPE 3  
1/2" = 1'-0"



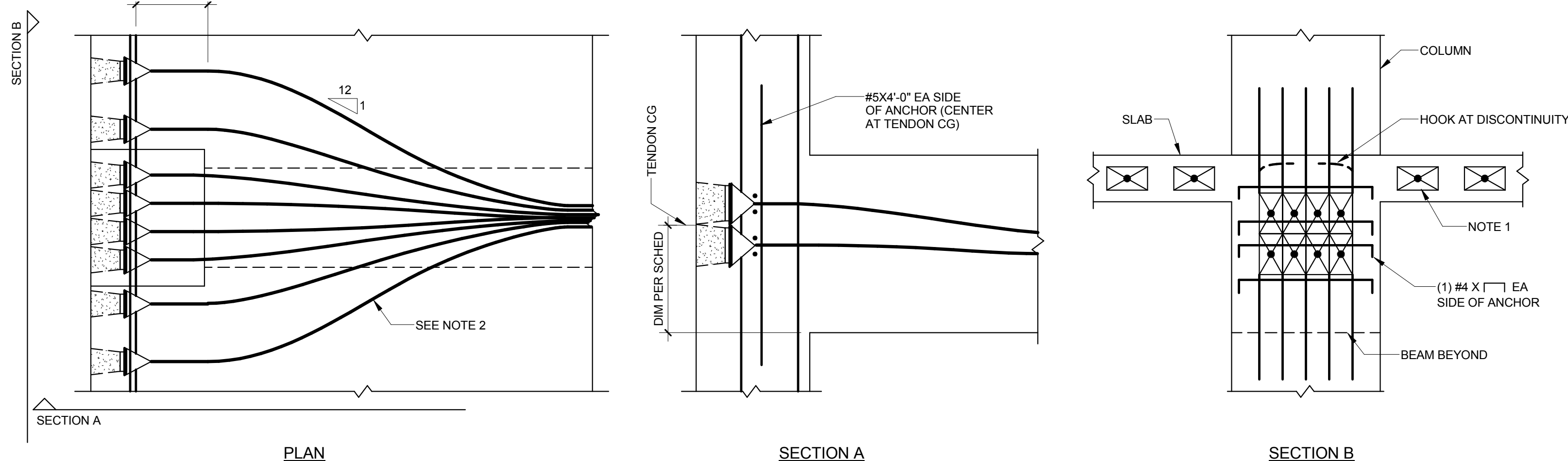
5  
S-431  
TYPICAL STIRRUP DETAIL  
3/4" = 1'-0"



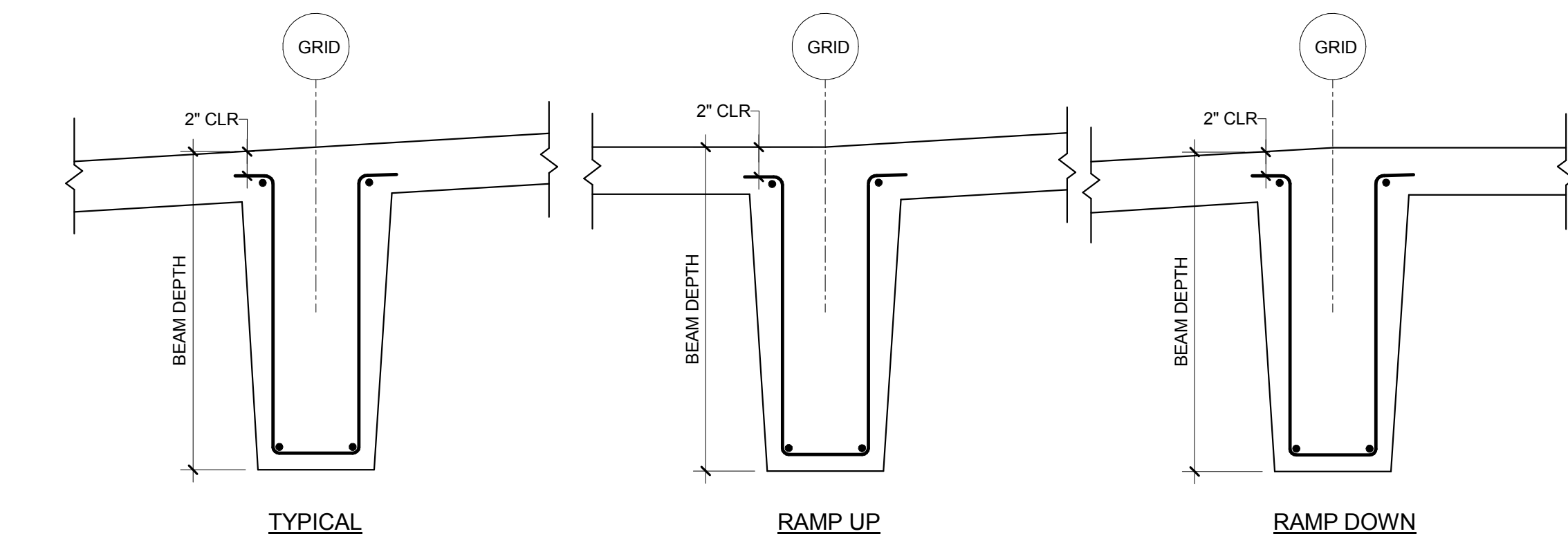
6  
S-431  
TYPICAL POST-TENSIONED BEAM REINFORCEMENT DETAIL  
3/4" = 1'-0"



7  
S-431  
TYPICAL POST-TENSIONED BEAM BLOCKOUT DETAIL  
3/4" = 1'-0"



8  
S-431  
TYPICAL PT BEAM ANCHORAGE DETAIL  
3/4" = 1'-0"



9  
S-431  
TYPICAL BEAM DETAIL AT RAMP  
3/4" = 1'-0"

# ADDENDUM #1 FOR CONSTRUCTION

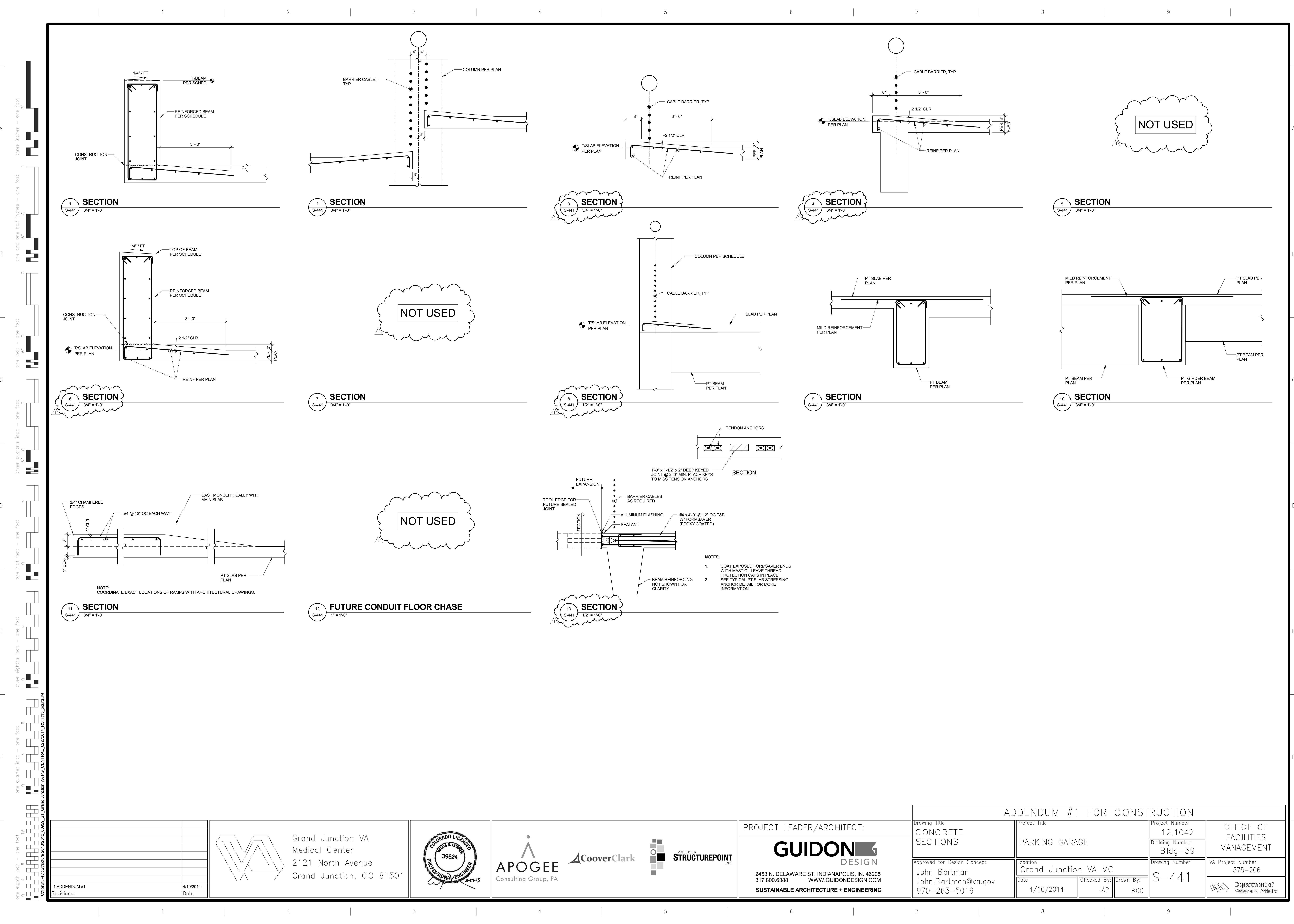
<p>Revisions:</p>	<p>Grand Junction VA Medical Center 2121 North Avenue Grand Junction, CO 81501</p>	<p>COLORADO LICENSED PROFESSIONAL ENGINEER 39624</p>	<p>APOGEE Consulting Group, PA</p>	<p>PROJECT LEADER/ARCHITECT: <b>GUIDON DESIGN</b> 2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205 317.800.6388 WWW.GUIDONDESIGN.COM SUSTAINABLE ARCHITECTURE + ENGINEERING</p>	<p>Drawing Title TYPICAL POST-TENSIONED BEAM DETAILS Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016</p>	<p>Project Title PARKING GARAGE Location Grand Junction VA MC Date 4/10/2014 Checked By: JAP Drawn By: BGC</p>	<p>Project Number 12.1042 Building Number Bldg-39 Drawing Number S-431</p>	<p>OFFICE OF FACILITIES MANAGEMENT VA Project Number 575-206 Department of Veterans Affairs</p>
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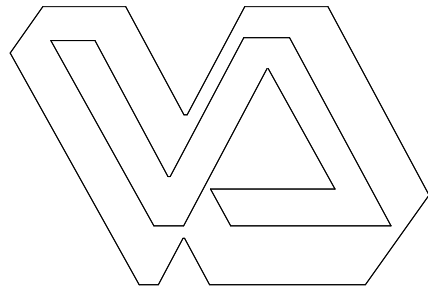




POST-TENSIONED CONCRETE BEAM SCHEDULE															
BEAM MARK	BEAM TYPE	SIZE	PRESTRESSING FORCE (KIPS)	VERTICAL TENDON LOCATION (IN)			LONGITUDINAL REINFORCEMENT				STIRRUPS				REMARKS
		WIDTH x DEPTH (IN)		A	B	C	CONT	ADDITIONAL							
PB1	2	18x52	161	26	4.5	49	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	UPTURNED BEAM #5 SIDE BARS @ 12" OC, EACH SIDE
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2", (8) @ 12"	
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 24"	
							2 LAYERS-(4) #9 EA	-	-	-					
PB2	2	18x52	161	49	4.5	49	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	UPTURNED BEAM #5 SIDE BARS @ 12" OC, EACH SIDE
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2", (8) @ 12"	
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 24"	
							(5) #9	-	-	-					
PB3	2	18x52	161	49	4.5	26	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	UPTURNED BEAM #5 SIDE BARS @ 12" OC, EACH SIDE
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2", (8) @ 12"	
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 24"	
							2 LAYERS-(4) #9 EA	-	-	-					
PB4	2	14x36	241	18	4.5	33	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2", (5) @ 9"	
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"	
							(3) #8	-	-	-					
PB5	2	14x36	241	33	4.5	18	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2", (5) @ 9"	
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"	
							(3) #8	-	-	-					
PB6	2	14x24	241	21	4.5	21	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2"	
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"	
							(3) #8	-	-	-					
PB7	2	14x36	295	18	4.5	33	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2", (5) @ 9"	
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"	
							(3) #9	-	-	-					
PB8	2	14x24	295	21	4.5	21	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2"	
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"	
							(3) #9	-	-	-					
PB9	2	14x36	295	33	4.5	18	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2", (5) @ 9"	
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"	
							(3) #9	-	-	-					
PB10	2	14x36	482	18	4.5	33	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2", (5) @ 9"	
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"	
							(3) #9	-	-	-					
PB11	2	14x24	401	21	4.5	21	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2"	
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"	
							(3) #9	-	-	-					
PB12	2	14x36	482	33	4.5	18	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2", (5) @ 9"	
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"	
							(3) #9	-	-	-					
PB13	1	14x36	429	18	4.5	18	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2", (5) @ 9"	
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"	
							(3) #9	-	-	-					
PB14	1	14x24	402	12	4.5	12	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2", (5) @ 9"	
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"	
							(3) #9	-	-	-					
PB15	1	14x36	429	18	4.5	18	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2", (5) @ 9"	
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"	
							(3) #9	-	-	-					

POST-TENSIONED CONCRETE BEAM SCHEDULE																			
BEAM MARK	BEAM TYPE	SIZE	PRESTRESSING FORCE (KIPS)	VERTICAL TENDON LOCATION (IN)			LONGITUDINAL REINFORCEMENT				STIRRUPS				REMARKS				
		WIDTH x DEPTH (IN)			A	B	C	CONT	ADDITIONAL										
PB16	2	18x36	669	18	4.5	33	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING					
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2", (5) @ 9"					
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"					
							(3) #9	-	-	-									
PB17	2	18x24	590	21	4.5	21	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING					
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2"					
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"					
							(3) #9	-	-	-									
PB18	2	18x36	669	33	4.5	18	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING					
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2", (5) @ 9"					
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"					
							(3) #9	-	-	-									
PB19	2	18x52	536	26	4.5	49	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	UPTURNED BEAM #5 SIDE BARS @ 12" OC, EACH SIDE				
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2", (8) @ 6"					
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"					
							(3) #9	-	-	-									
PB20	2	18x52	536	49	4.5	49	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	UPTURNED BEAM #5 SIDE BARS @ 12" OC, EACH SIDE				
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2", (22) @ 6"					
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"					
							(3) #9	-	-	-									
PB21	2	18x52	536	49	4.5	26	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING	UPTURNED BEAM #5 SIDE BARS @ 12" OC, EACH SIDE				
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2", (8) @ 6"					
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"					
							(3) #9	-	-	-									
PB22		NOT USED					TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING					
							-	-	-	-	EA END	-	-	-					
							BOTTOM	B1	B2	B3	BAL	-	-	-					
							-	-	-	-									
PB23		NOT USED					TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING					
							-	-	-	-	EA END	-	-	-					
							BOTTOM	B1	B2	B3	BAL	-	-	-					
							-	-	-	-									
PB24	1	24x36	402	18	4.5	18	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING					
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2"					
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"					
							(2) #8	-	-	-									
PB25	1	24X36	402	18	4.5	18	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING					
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2"					
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"					
							(2) #8	-	-	-									
PB26	2	14x36	429	18	4.5	18	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING					
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2", (5) @ 9"					
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"					
							(3) #9	-	-	-									
PB27	2	14x24	402	12	4.5	12	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING					
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2", (5) @ 9"					
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"					
							(3) #9	-	-	-									
PB28	2	14x36	429	18	4.5	18	TOP	T1	-	T2	LOC	SIZE	TYPE	SPACING					
							(2) #8	-	-	-	EA END	#4	S1	(1) @ 2", (5) @ 9"					
							BOTTOM	B1	B2	B3	BAL	#4	S2	BAL @ 12"					
							(3) #9	-	-	-									



[illegible]




1 ADDENDUM #1				4/10/2014			
Revisions:				Date			
				Grand Junction VA Medical Center 2121 North Avenue Grand Junction, CO 81501			
				APOGEE Consulting Group, PA			
							
PROJECT LEADER/ARCHITECT:				2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205 317.800.6388 WWW.GUIDONDESIGN.COM SUSTAINABLE ARCHITECTURE + ENGINEERING			
GUIDON DESIGN				2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205 317.800.6388 WWW.GUIDONDESIGN.COM SUSTAINABLE ARCHITECTURE + ENGINEERING			
Drawing Title				CONCRETE SECTIONS			
Project Title				PARKING GARAGE			
Project Number				12.1042			
Building Number				Bldg - 39			
Approved for Design Concept:				John Bartman John.Bartman@va.gov 970-263-5016			
Location				Grand Junction VA MC			
Date				4/10/2014			
Checked By:				JAP			
Drawn By:				BGC			
Drawing Number				S-441			
VA Project Number				575-206			
				Department of Veterans Affairs			





ALL ANCHOR RODS ASTM F1554 GRADE 36, UNO

### TYPICAL COLUMN ANCHOR RODS



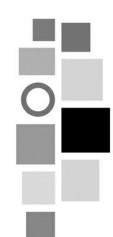
Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501



 APOGEE  
Consulting Group, PA



CooverClark




AMERICAN  
**STRUCTUREPOINT**  
INC.

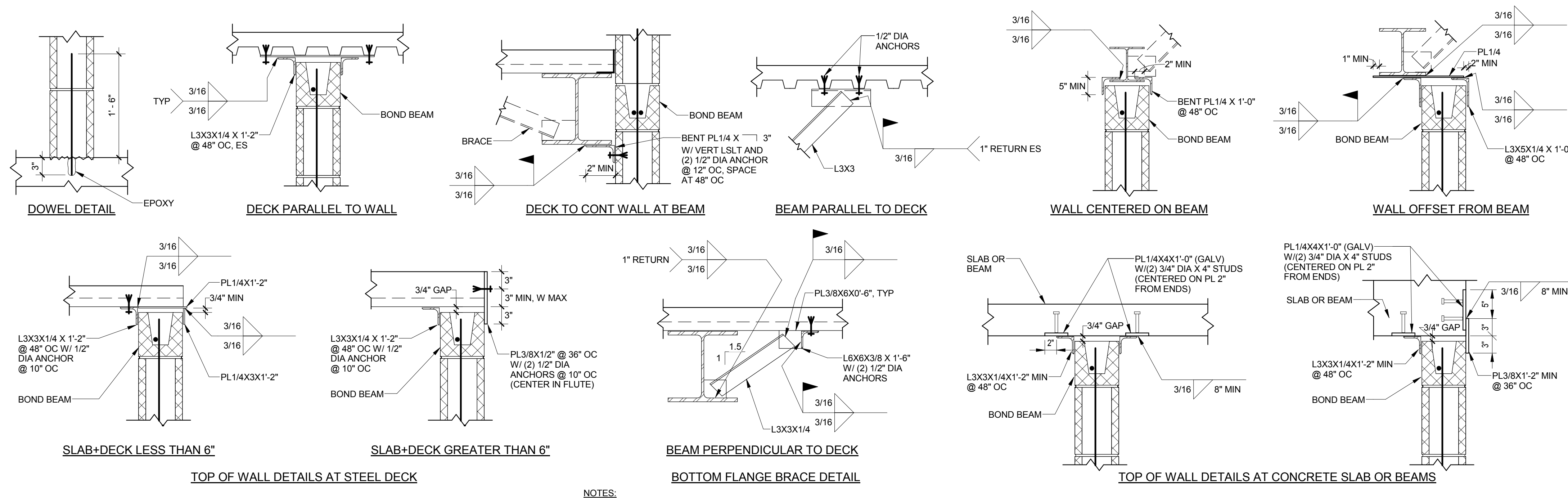
PROJECT LEADER/ARCHITECT:

**GUIDON**   
DESIGN

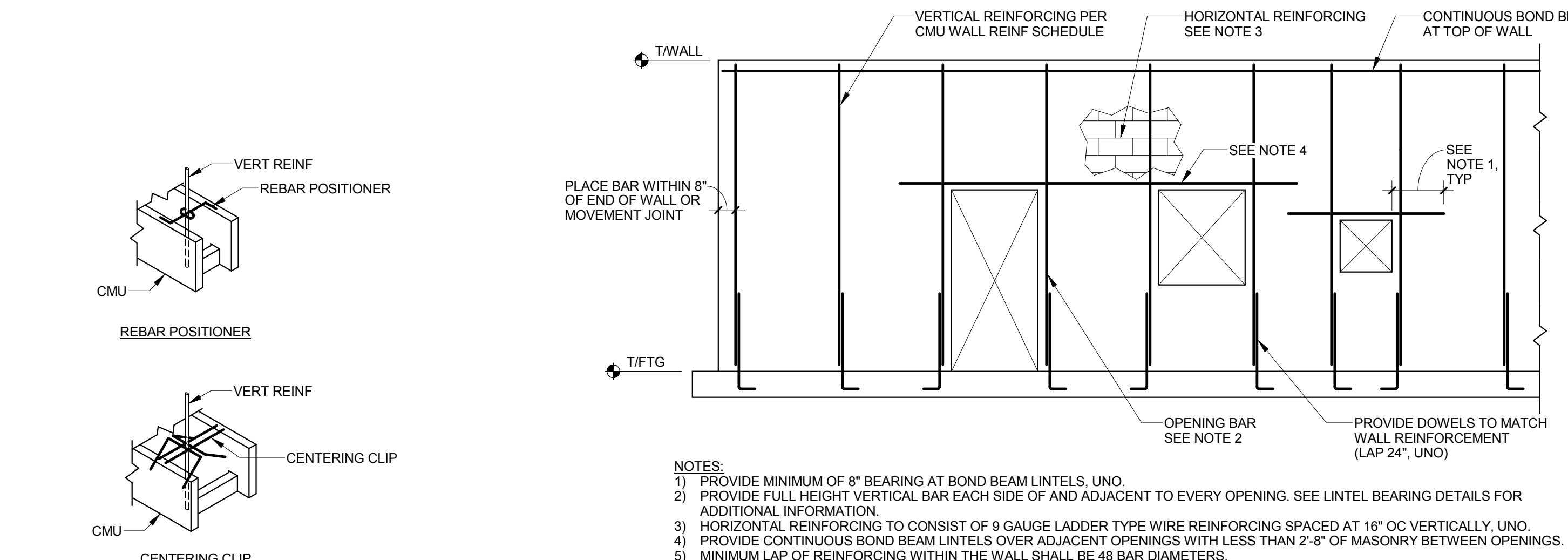
2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
317.800.6388 WWW.GUIDONDESIGN.COM  
**SUSTAINABLE ARCHITECTURE + ENGINEERING**

ADDENDUM #1 FOR CONSTRUCTION

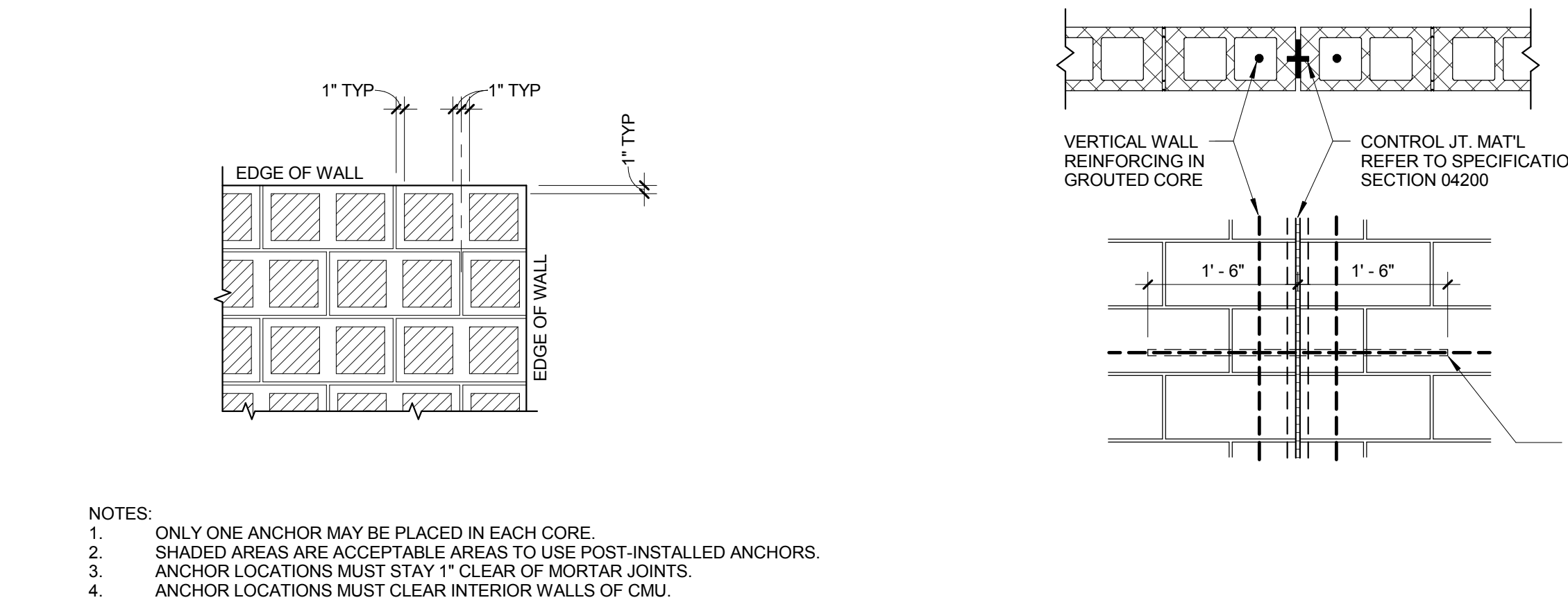
Drawing Title  TYPICAL STEEL SECTIONS AND DETAILS	Project Title  PARKING GARAGE		Project Number 12.1042		OFFICE OF FACILITIES MANAGEMENT
			Building Number Bldg - 39		
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA MC		Drawing Number S-501		VA Project Number 575-206
	Date 4/10/2014	Checked By: JAP	Drawn By: BGC	 Department of Veterans Affairs	



1 TYPICAL CMU NON-BEARING AND NON-SHEAR WALLS DETAILS  
S-502 N.T.S.



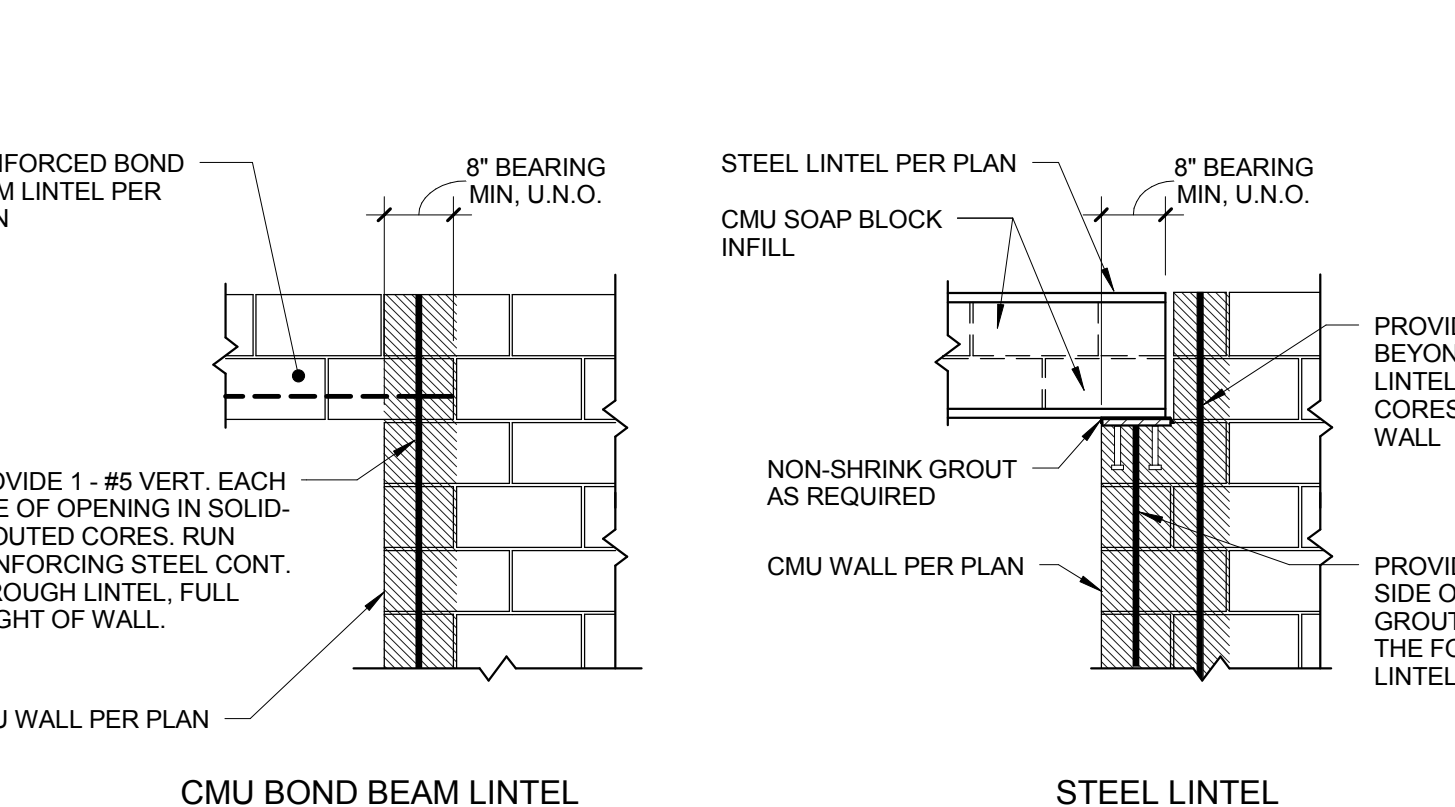
3 TYPICAL REBAR POSITIONERS  
S-502 N.T.S.



7 ACCEPTABLE LOCATIONS FOR POST-INSTALLED ANCHORS IN CMU WALLS  
S-502 N.T.S.

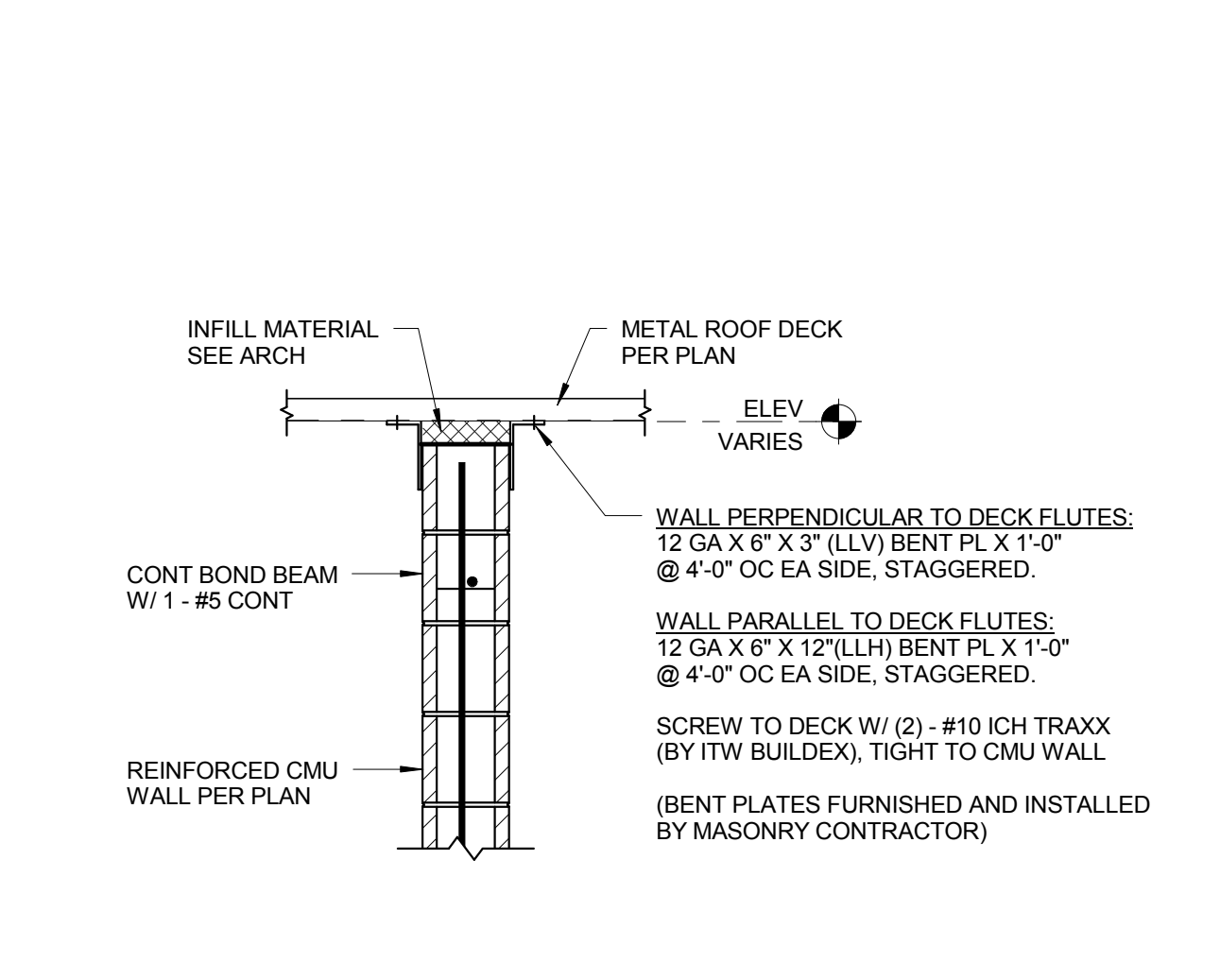
8 TYPICAL CMU CONTROL JOINT  
S-502 N.T.S.

5 TYPICAL BOND BEAM REINFORCEMENT DETAIL  
S-502 N.T.S.



9 TYPICAL LINTEL BEARING DETAILS  
S-502 N.T.S.

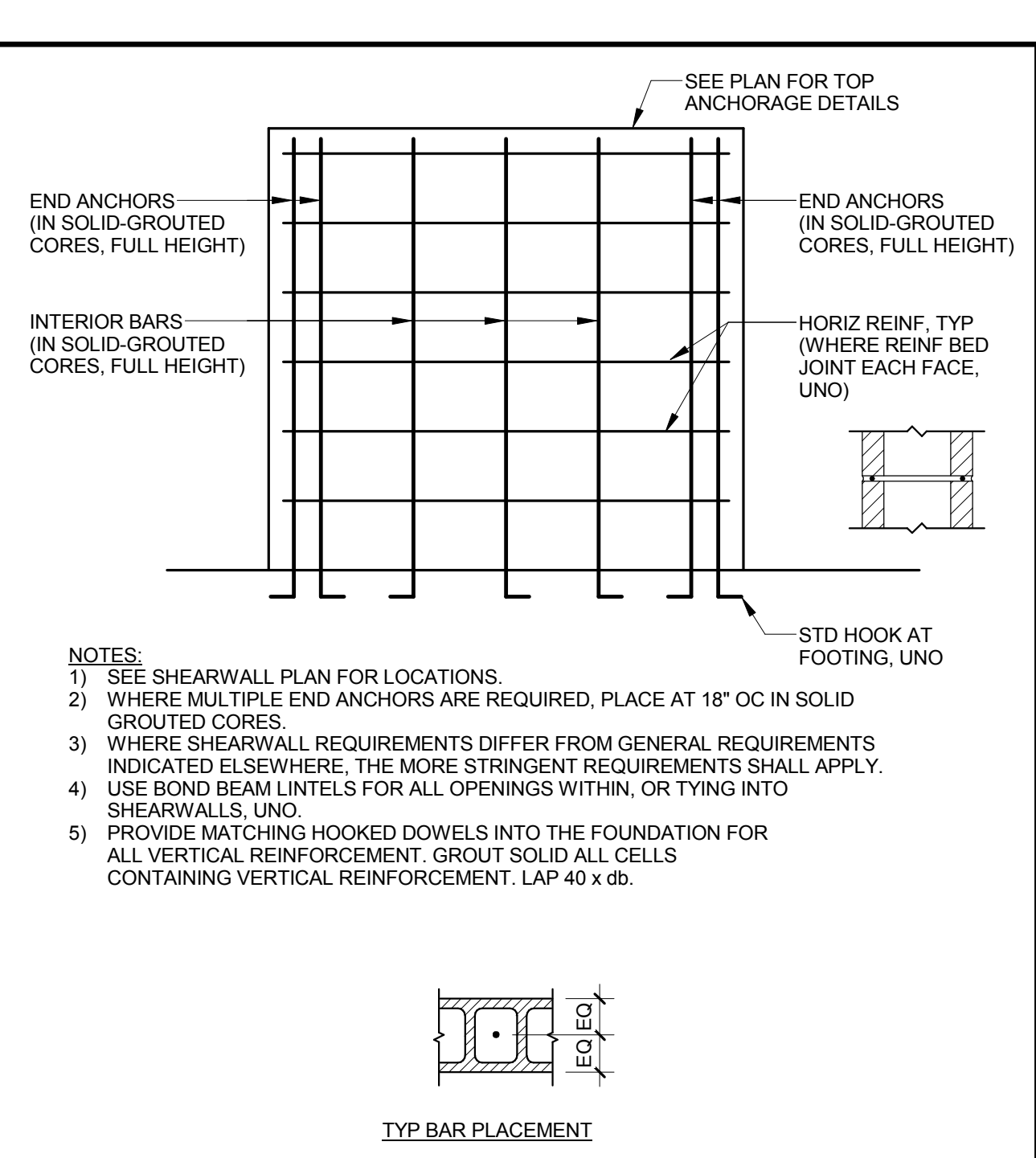
2 TYPICAL CMU NON-BEARING WALL DETAILS  
S-502 N.T.S.



6 CMU PARTITION WALL BRACING DETAIL  
S-502 N.T.S.



CMU WALL REINFORCEMENT SCHEDULE			
BEARING WALLS:			
MARK	SIZE	REINFORCEMENT	REMARKS
BW1	8"	SEE PLAN FOR REFERENCED ELEVATION	
NON-BEARING WALLS:			
WALL HT (FT)	SIZE	REINFORCEMENT	REMARKS
12 MAX	8"	#5 @ 48" OC VERT / #5 @ 48" OC HORIZ BOND BEAMS	ALL DOWEL BARS SHALL BE EPOXY COATED REINFORCING



CMU SHEARWALL SCHEDULE					
MARK	CMU SIZE	END ANCHORS	INTERIOR BARS	HORIZONTAL REINFORCING	NOTES
SW1	8"	(2) #6	#6 @ 24"	--	
SW2	12"	(2) #9	#9 @ 8"	--	
SW3	12"	(2) TYP INT BARS	SEE 2/S-212	--	
SW4	8"	(2) TYP INT BARS	SEE 2/S-212	--	
SW5	8"	(2) #6	#6 @ 32"	--	

### MASONRY REINFORCING STEEL LAP SPICE CHART

BAR SPICE LENGTHS	
BAR	SPICE LENGTHS
#3	27"
#4	36"
#5	45"
#6	54"
#7	63"
#8	72"
#9	82"

NOTES:  
BARS LARGER THAN #6 ARE REQUIRED TO BE SPICED BY MECHANICAL CONNECTORS UNLESS SPECIFICALLY SHOWN ON PLANS.  
SPICES BASED ON 1/6 TAKEN EQUAL TO 100% OF THE ALLOWABLE TENSILE STRESS OF 24000 PSI.  
BASED ON Fm >= 1500 PSI

ADDENDUM #1 FOR CONSTRUCTION					
Drawing Title	Project Title	Project Number	OFFICE OF FACILITIES MANAGEMENT		
TYPICAL CMU SECTIONS AND DETAILS	PARKING GARAGE	12.1042			
Approved for Design Concept:	Location	Drawing Number	VA Project Number		
John Bartman	Grand Junction VA MC	S-502	575-206		
John.Bartman@va.gov	Date	Checked By:	Department of Veterans Affairs		
970-263-5016	4/10/2014	JAP	BGC		

Grand Junction VA Medical Center  
2121 North Avenue  
Grand Junction, CO 81501

39624  
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PROJECT LEADER/ARCHITECT:

**GUIDON DESIGN**

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A

B

C

D

E

F

A

B

C

D

E

F

three inches = one foot

one and one half inches = one foot

one inch = one foot

three quarters inch = one foot

one half inch = one foot

three eighths inch = one foot

one quarter inch = one foot

three sixteenths inch = one foot

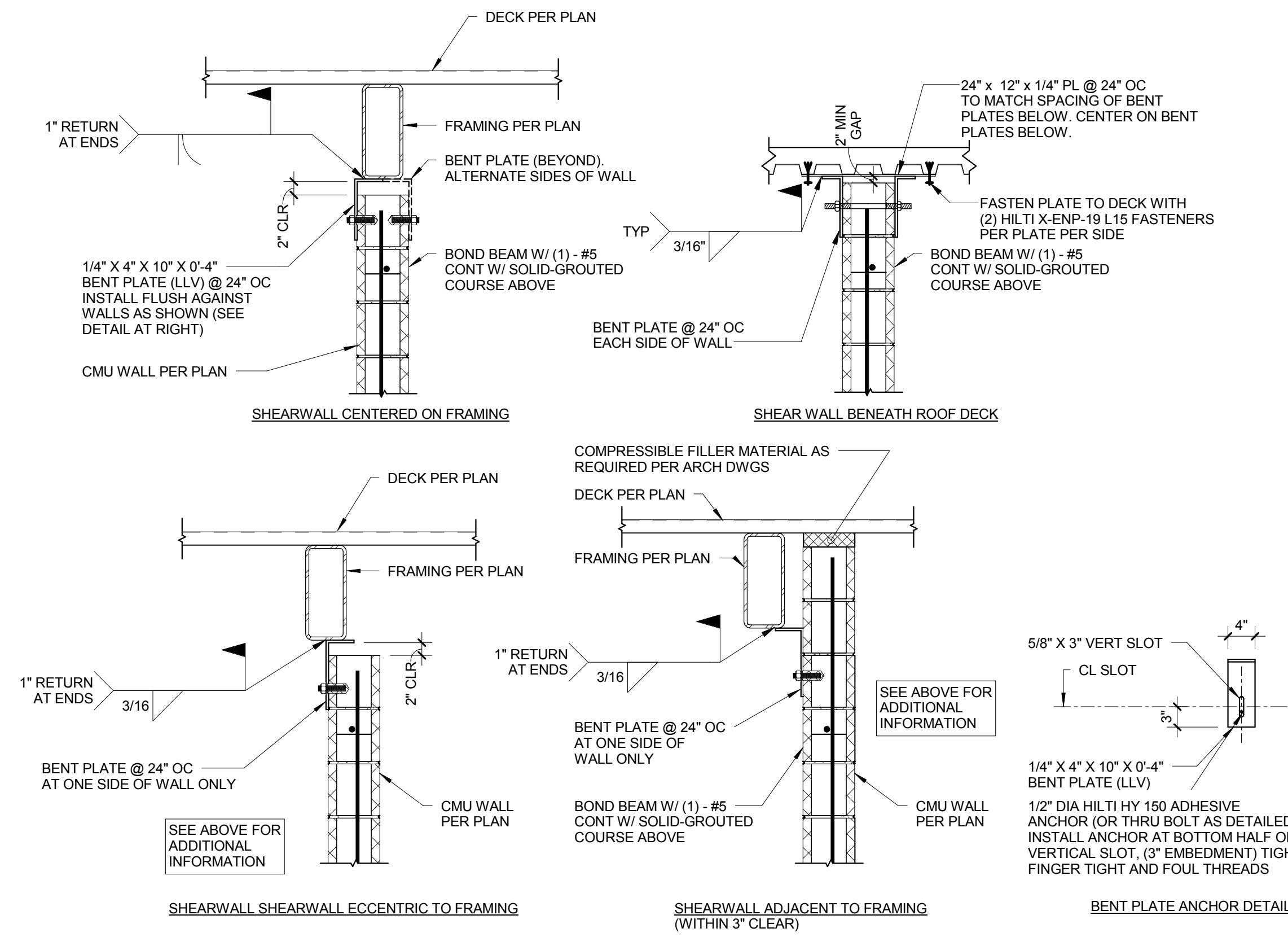
one eighth inch = one foot

one quarter inch = one foot

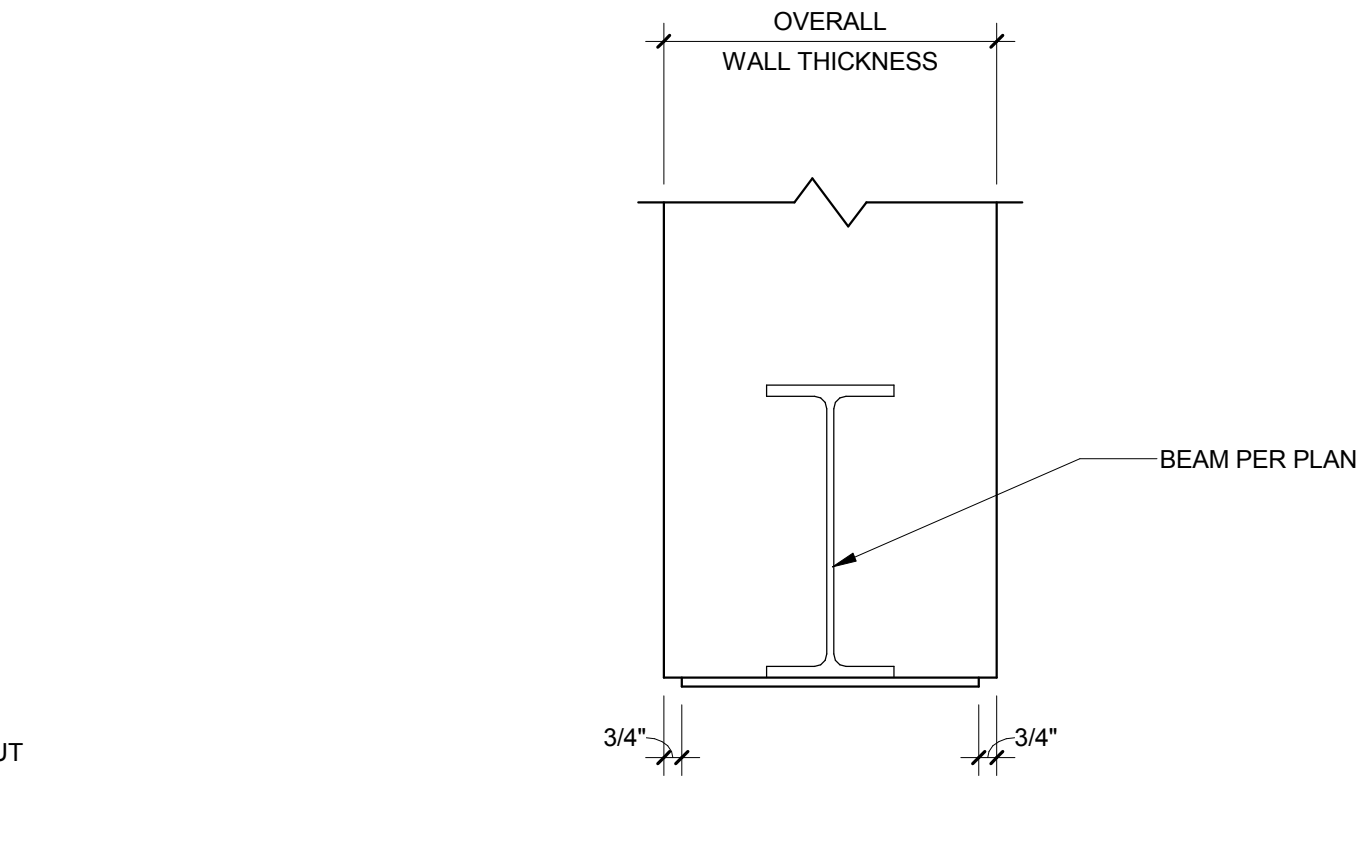
one eighth inch = one foot

one eighth inch = one foot

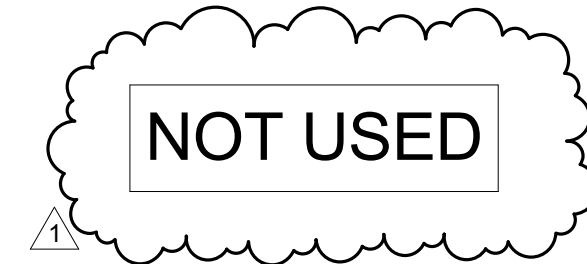
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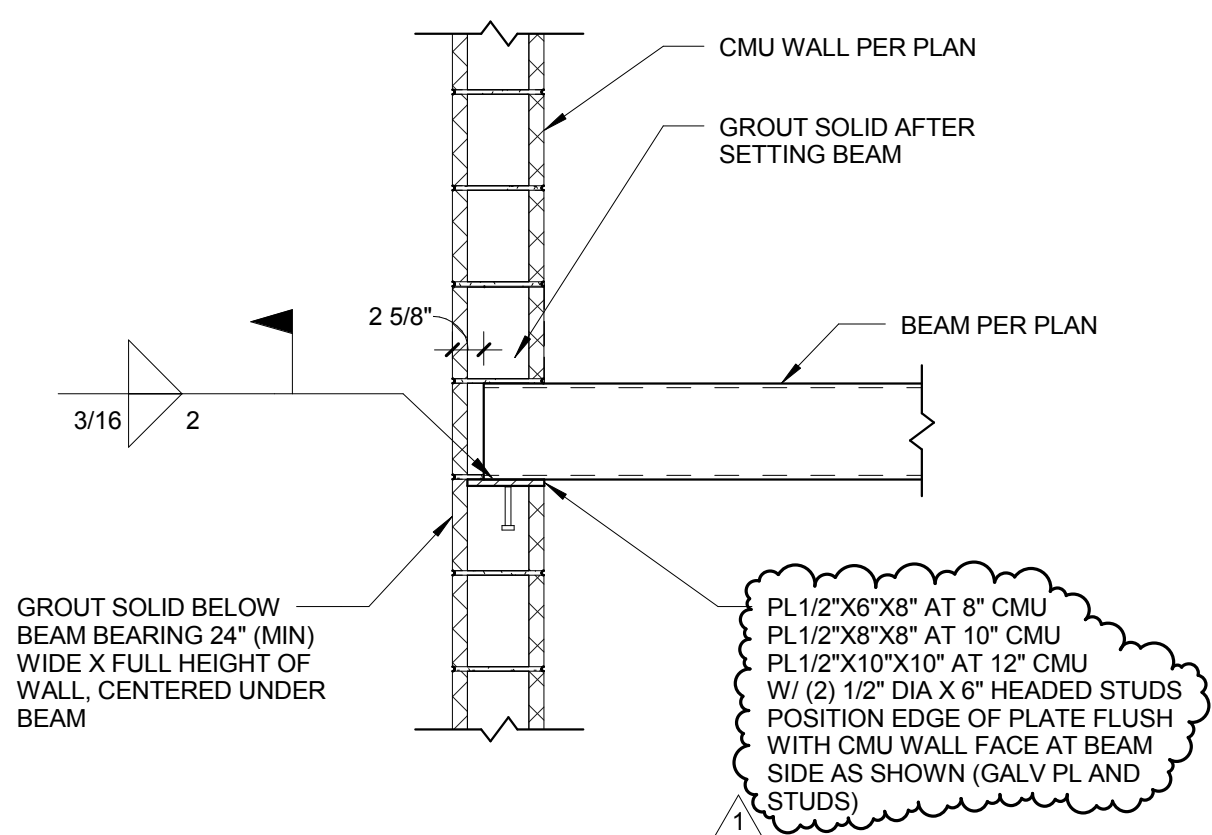
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S-503  
TYPICAL SHEAR WALL ANCHORAGE AT BEAM/DECK  
N.T.S.



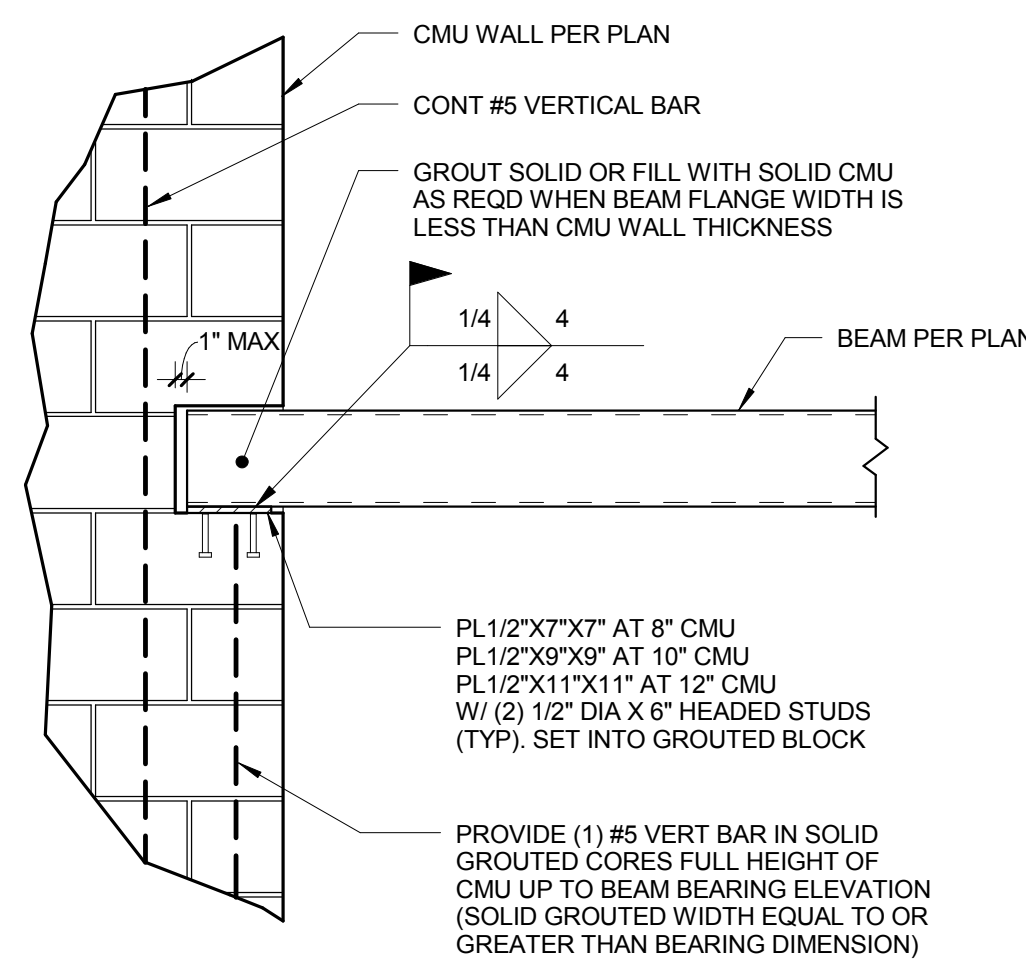
2  
S-503  
TYPICAL BEAM AND PLATE ALIGNMENT, UNO  
N.T.S.



3  
S-503  
SECTION  
N.T.S.

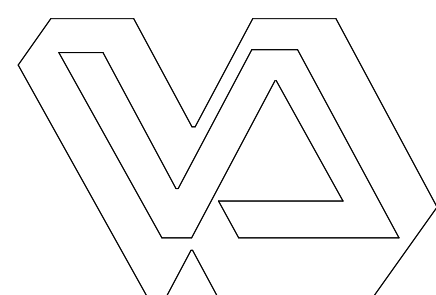


4  
S-503  
TYPICAL BEAM BEARING ON (PERPENDICULAR TO) CMU WALL  
N.T.S.

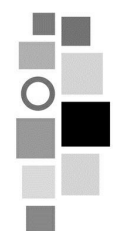


5  
S-503  
TYPICAL BEAM BEARING ON (PARALLEL TO) CMU WALL  
N.T.S.

1 ADDENDUM #1	4/10/2014
Revisions:	Date



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Grand Junction, CO 81501



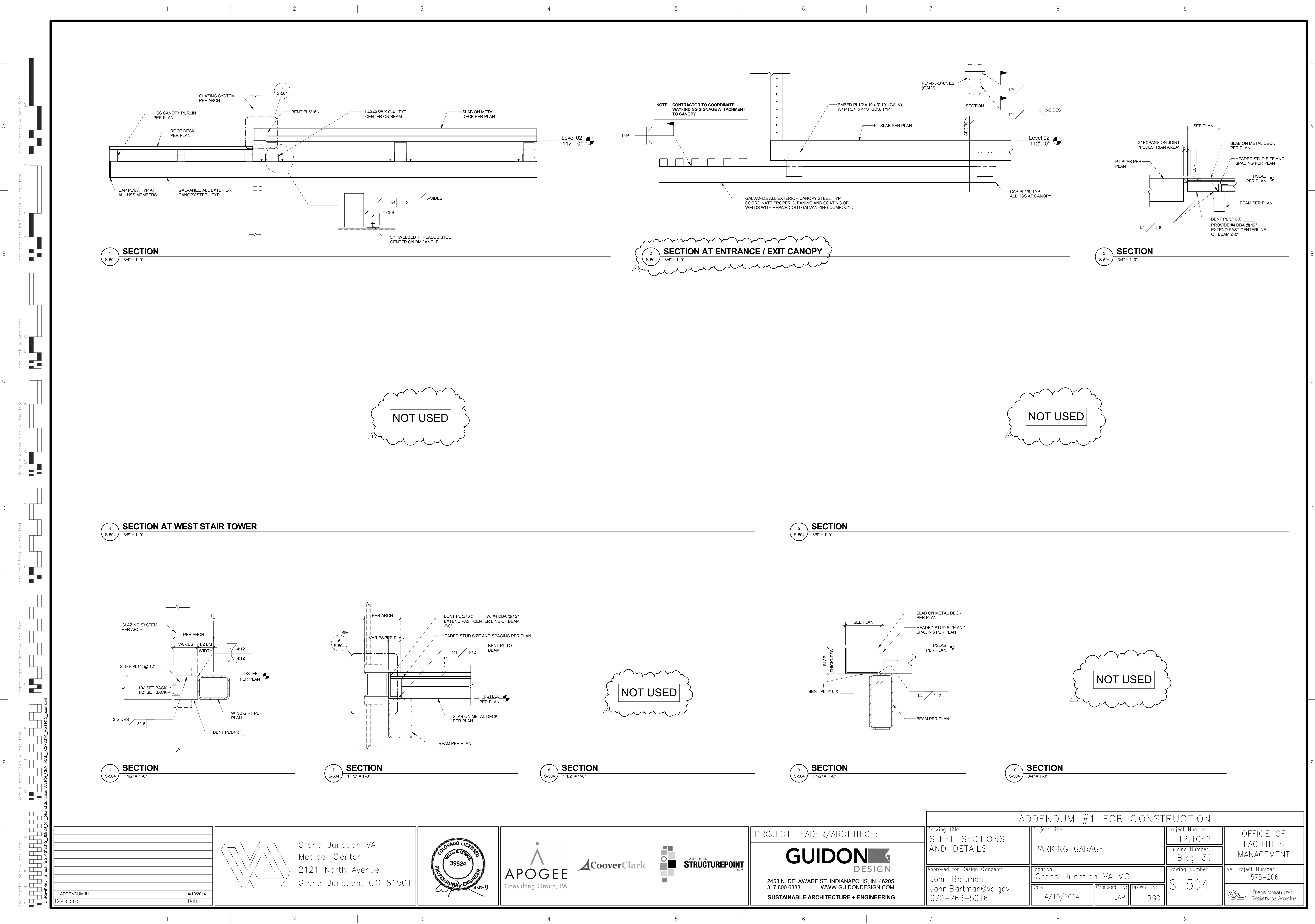
PROJECT LEADER/ARCHITECT:

**GUIDON** DESIGN

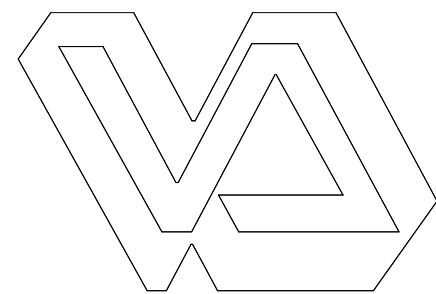
2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
317.800.6388 WWW.GUIDONDESIGN.COM  
SUSTAINABLE ARCHITECTURE + ENGINEERING

ADDENDUM #1 FOR CONSTRUCTION

Drawing Title TYPICAL CMU SECTIONS AND DETAILS	Project Title PARKING GARAGE	Project Number 12.1042 Building Number Bldg - 39	OFFICE OF FACILITIES MANAGEMENT
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA MC	Drawing Number S-503	VA Project Number 575-206
Date 4/10/2014	Checked By: JAP	Drawn By: BGC	Department of Veterans Affairs



1 ADDENDUM #1	4/10/2014
Revisions:	Date



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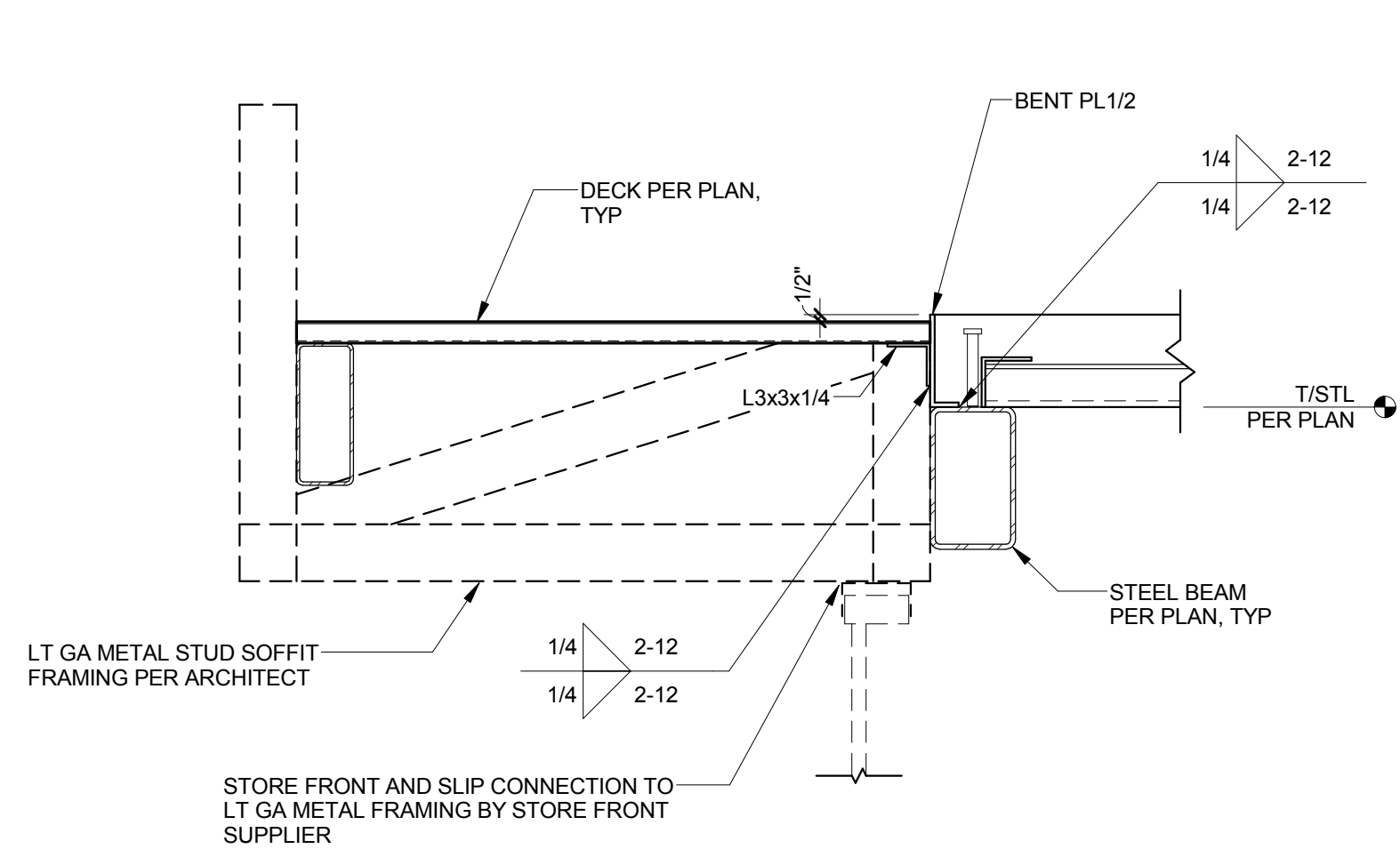
PROJECT LEADER/ARCHITECT:

**GUIDON** DESIGN

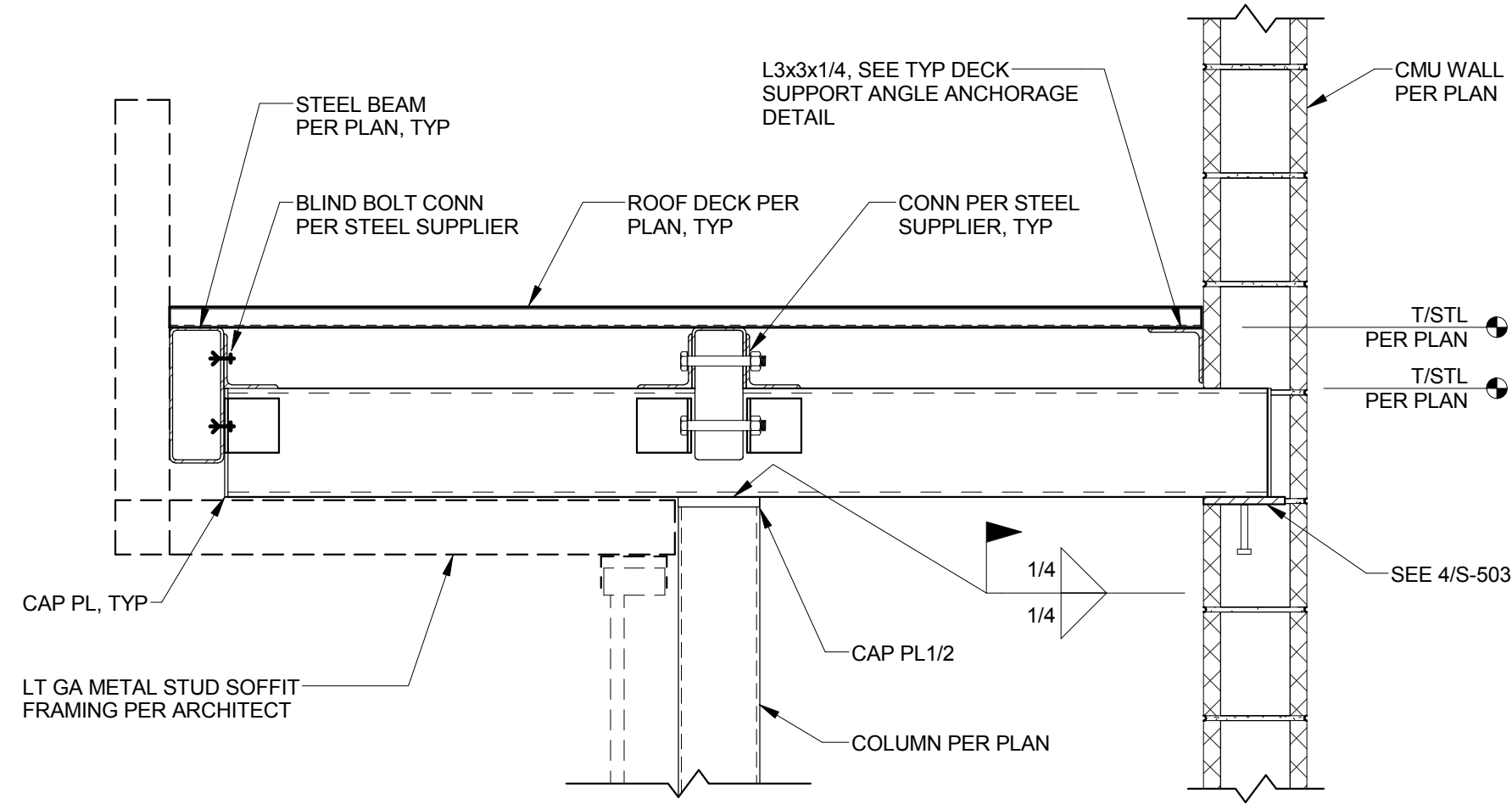
2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
317.800.6388 WWW.GUIDONDESIGN.COM  
SUSTAINABLE ARCHITECTURE + ENGINEERING

ADDENDUM #1 FOR CONSTRUCTION

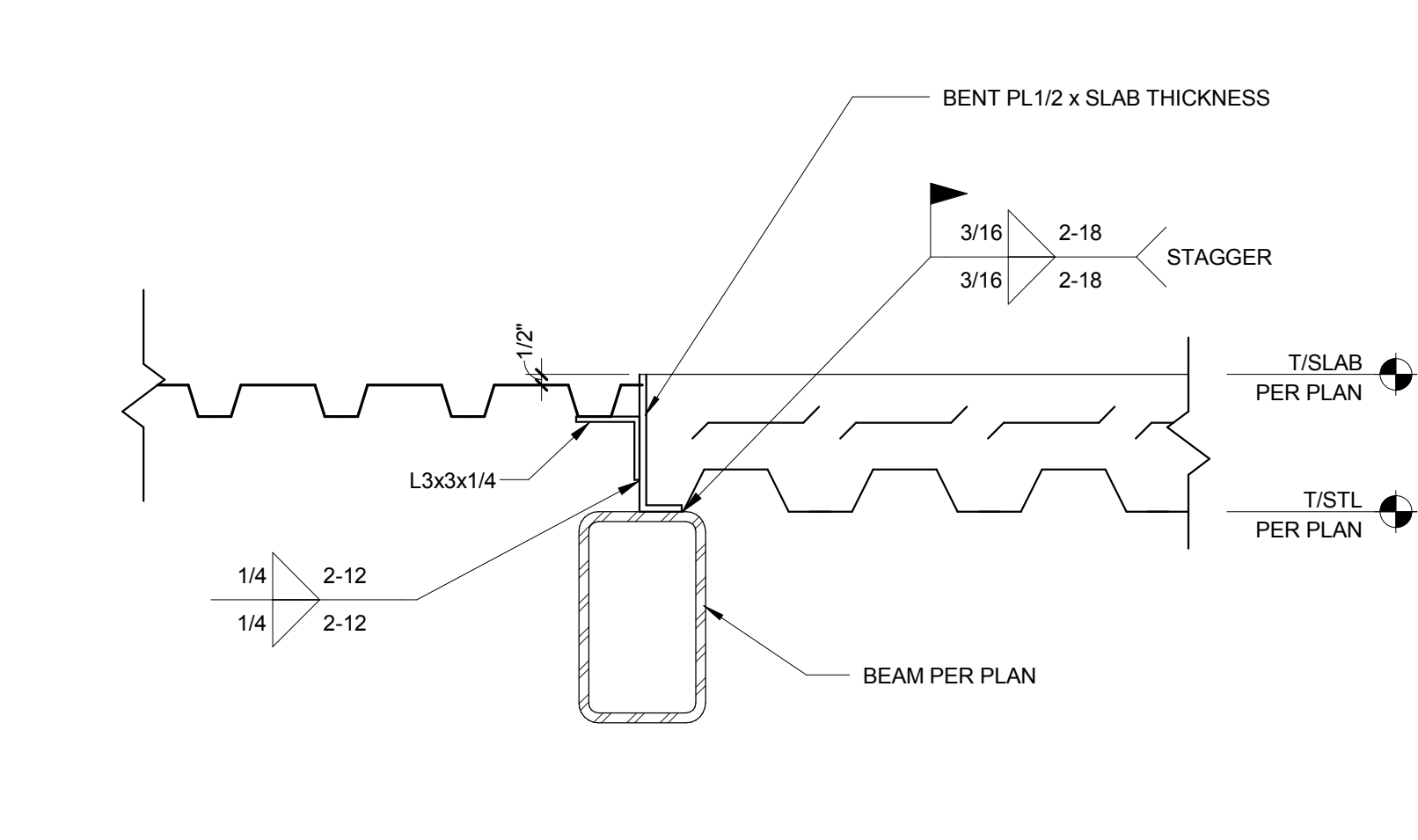
Drawing Title STEEL SECTIONS AND DETAILS	Project Title PARKING GARAGE	Project Number 12.1042 Building Number Bldg -39	OFFICE OF FACILITIES MANAGEMENT
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA MC	Drawing Number S-504	VA Project Number 575-206
Date 4/10/2014	Checked By: JAP	Drawn By: BGC	Department of Veterans Affairs



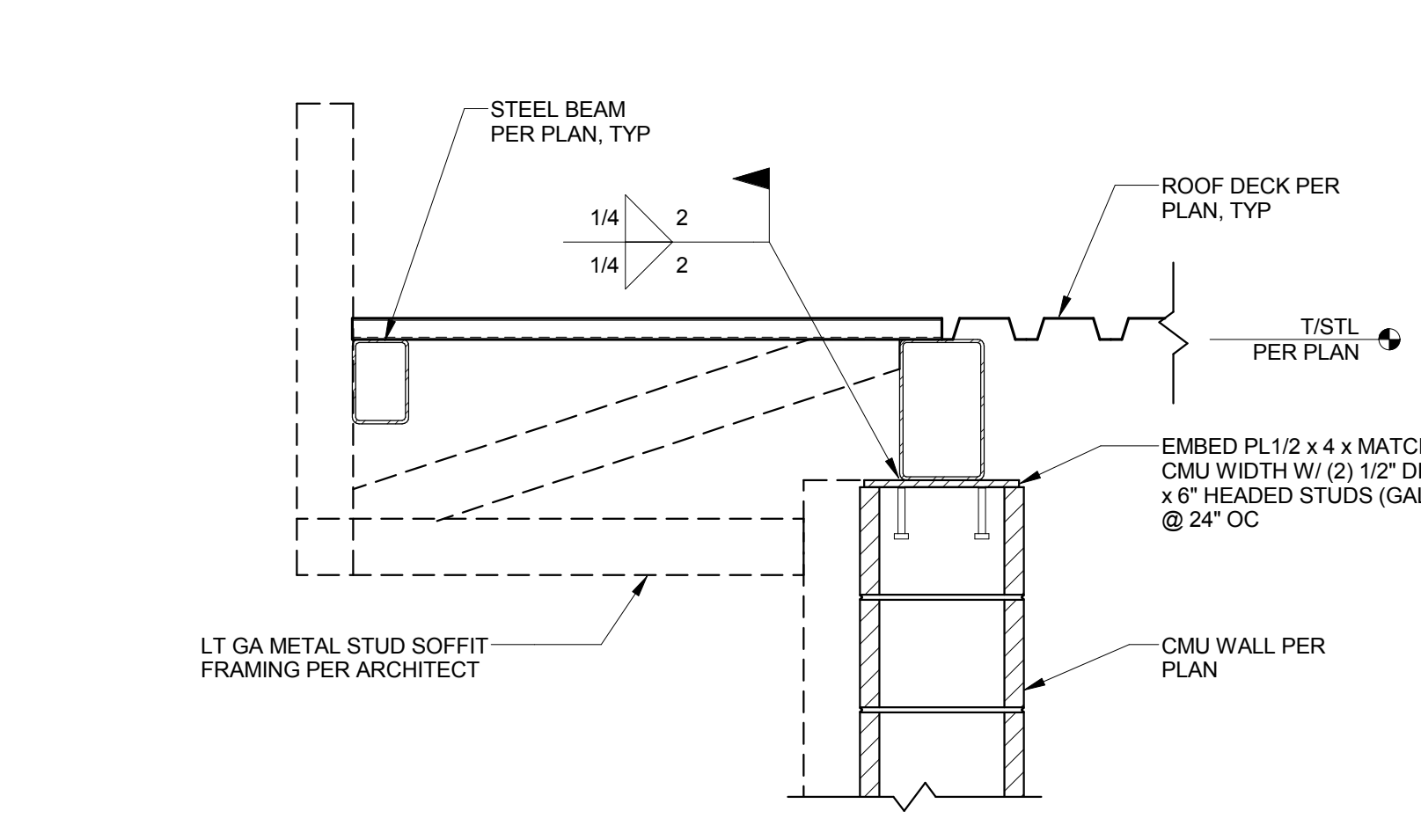
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S-505 1" = 1'-0"



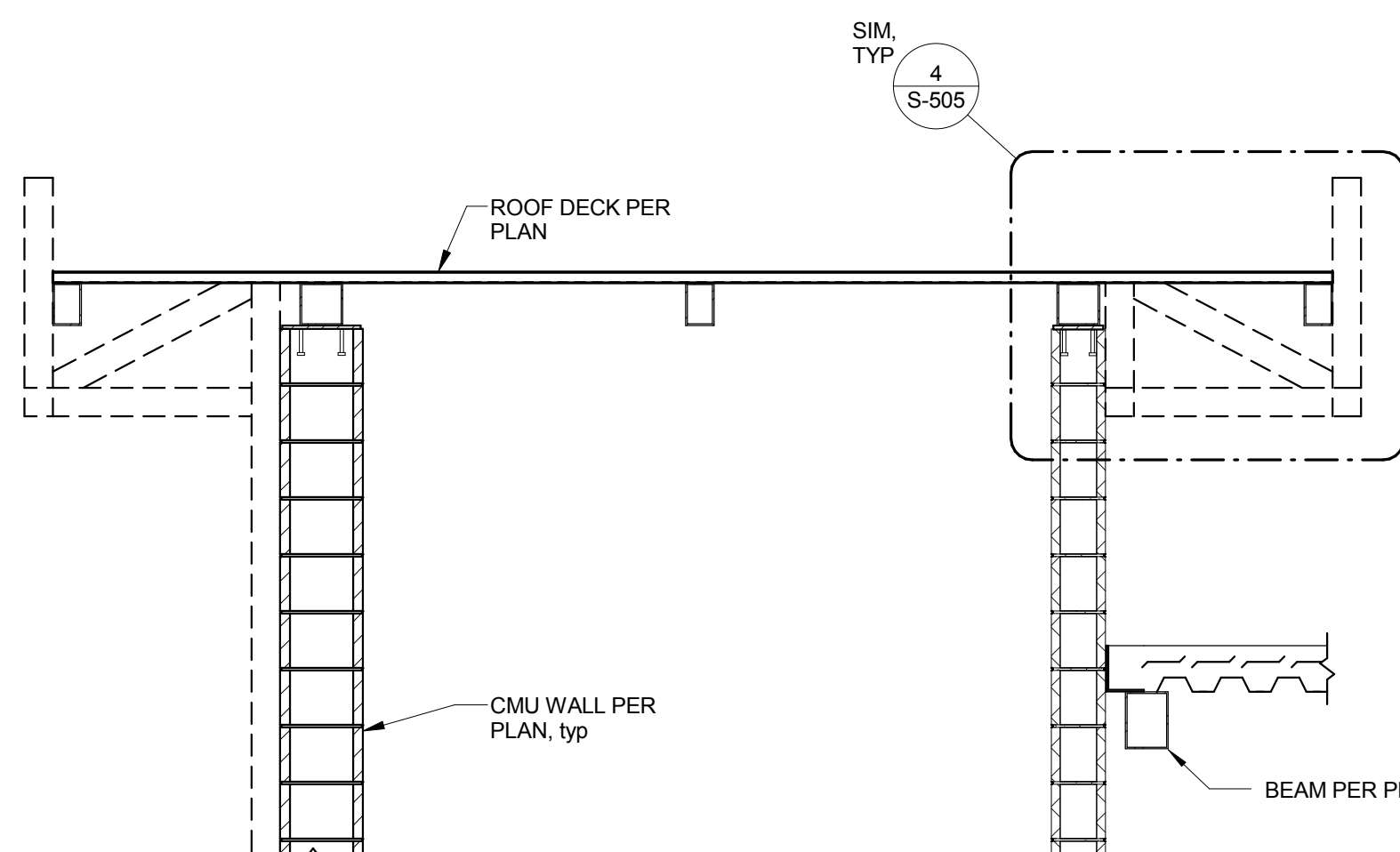
2 SECTION  
S-505 1" = 1'-0"



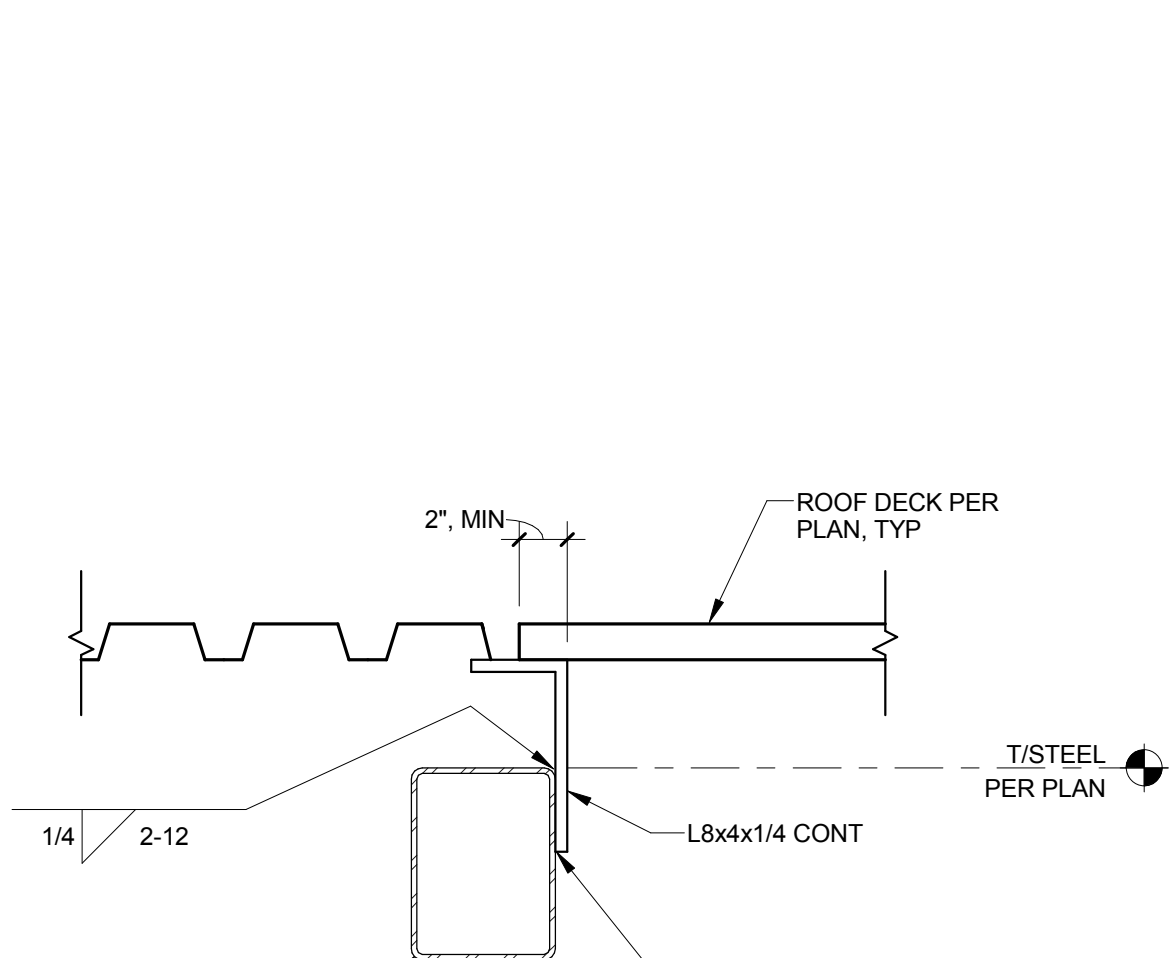
3 SECTION  
S-505 1 1/2" = 1'-0"



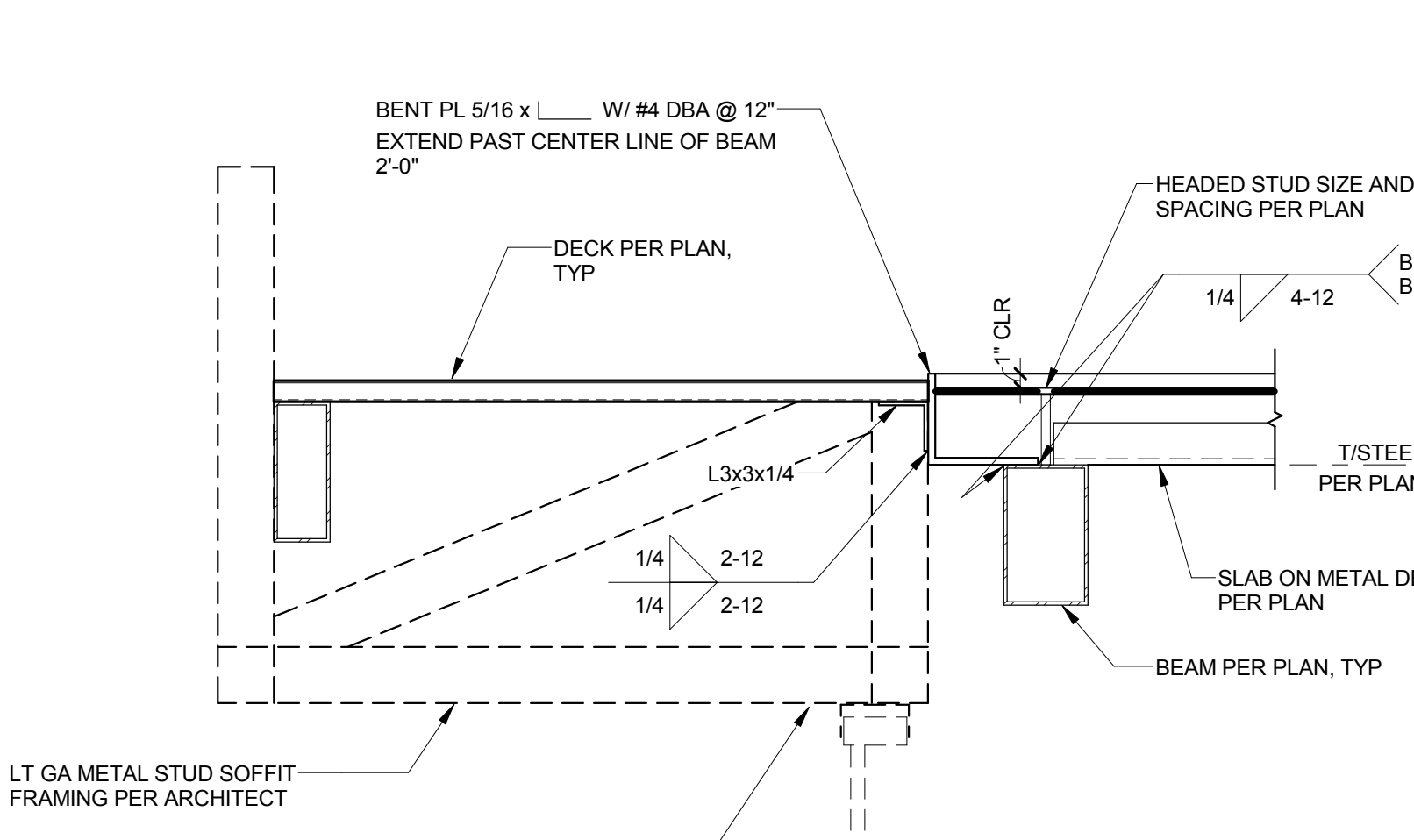
4 SECTION  
S-505 1" = 1'-0"



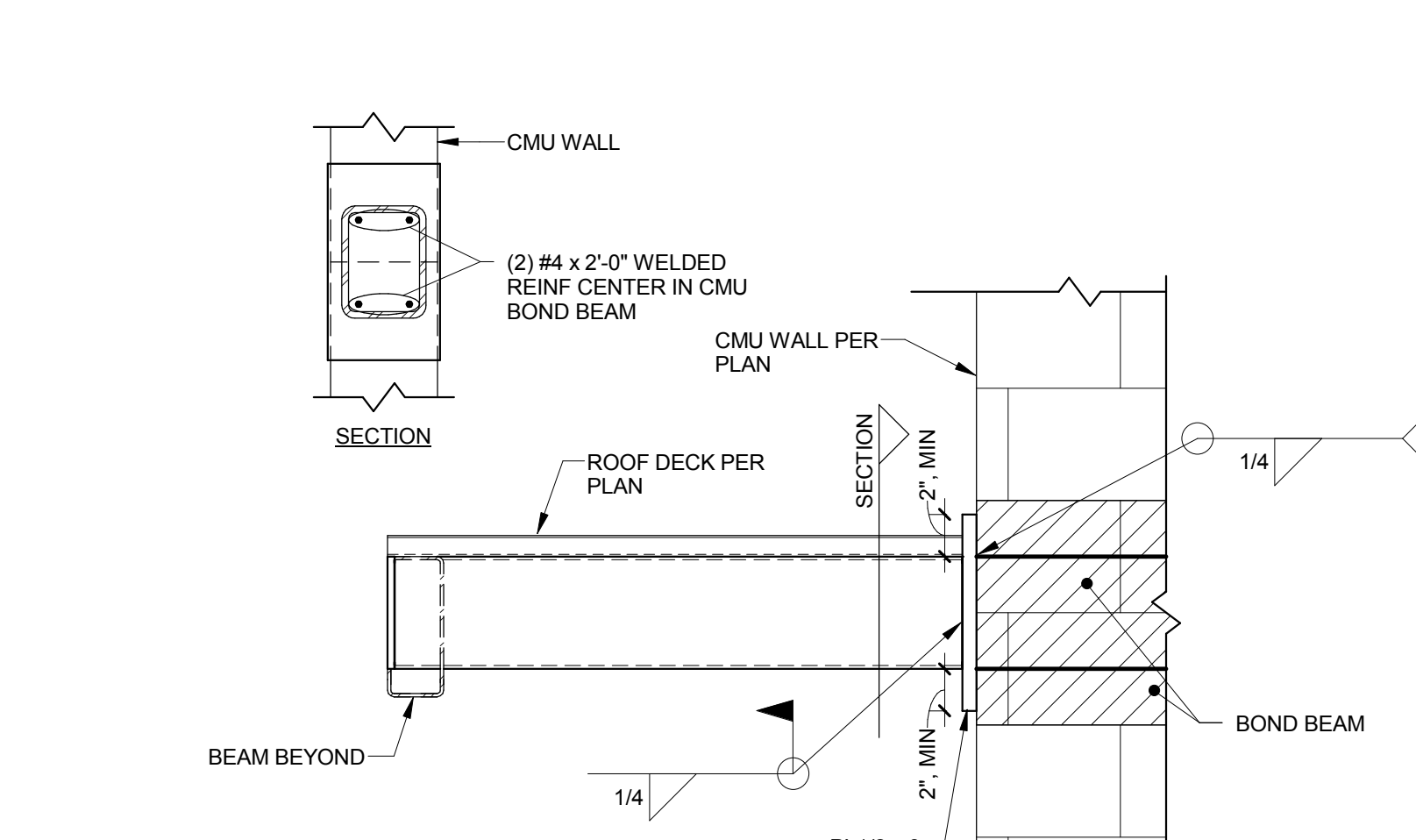
5 SECTION  
S-505 1/2" = 1'-0"



6 SECTION  
S-505 1 1/2" = 1'-0"

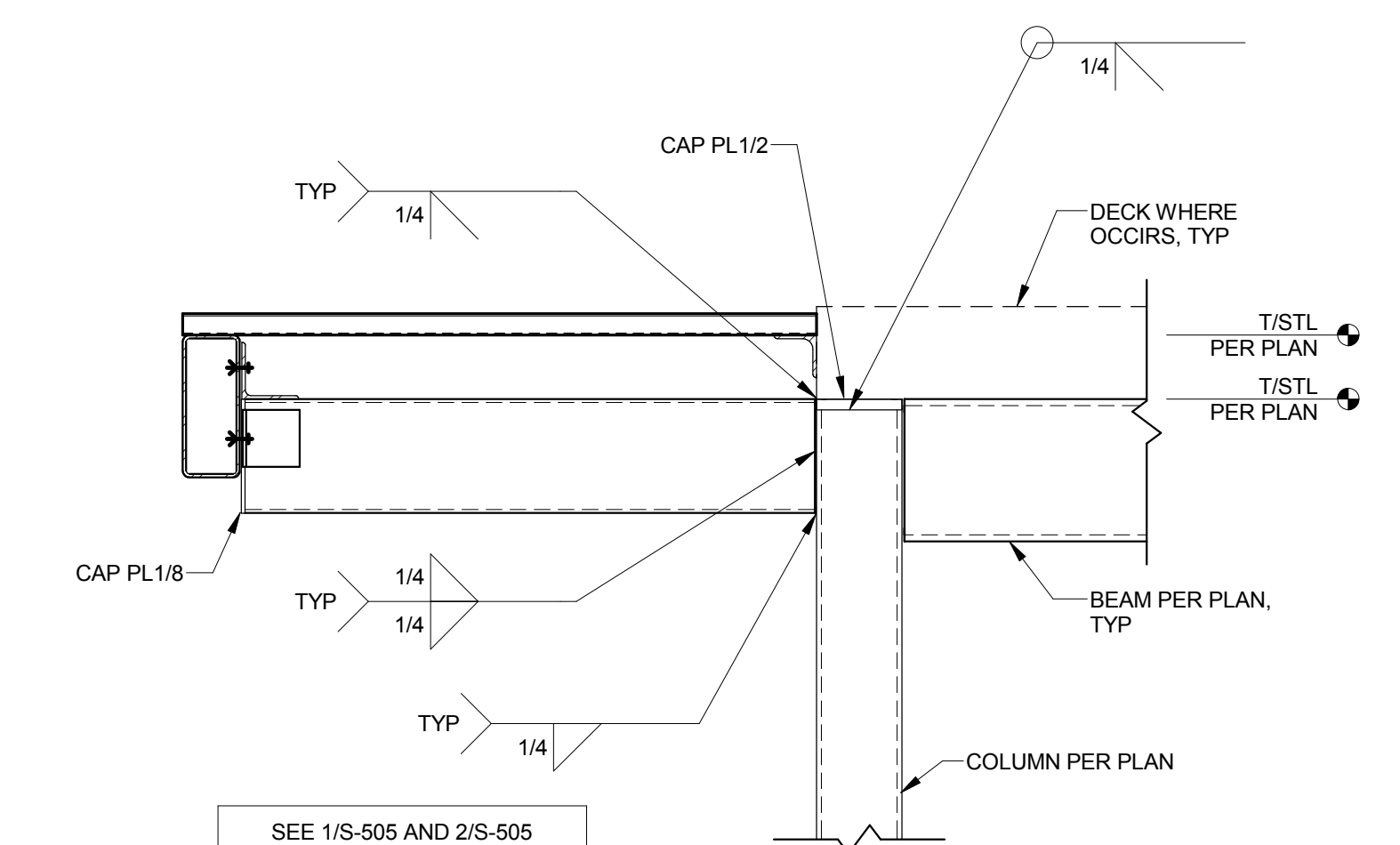


7 SECTION  
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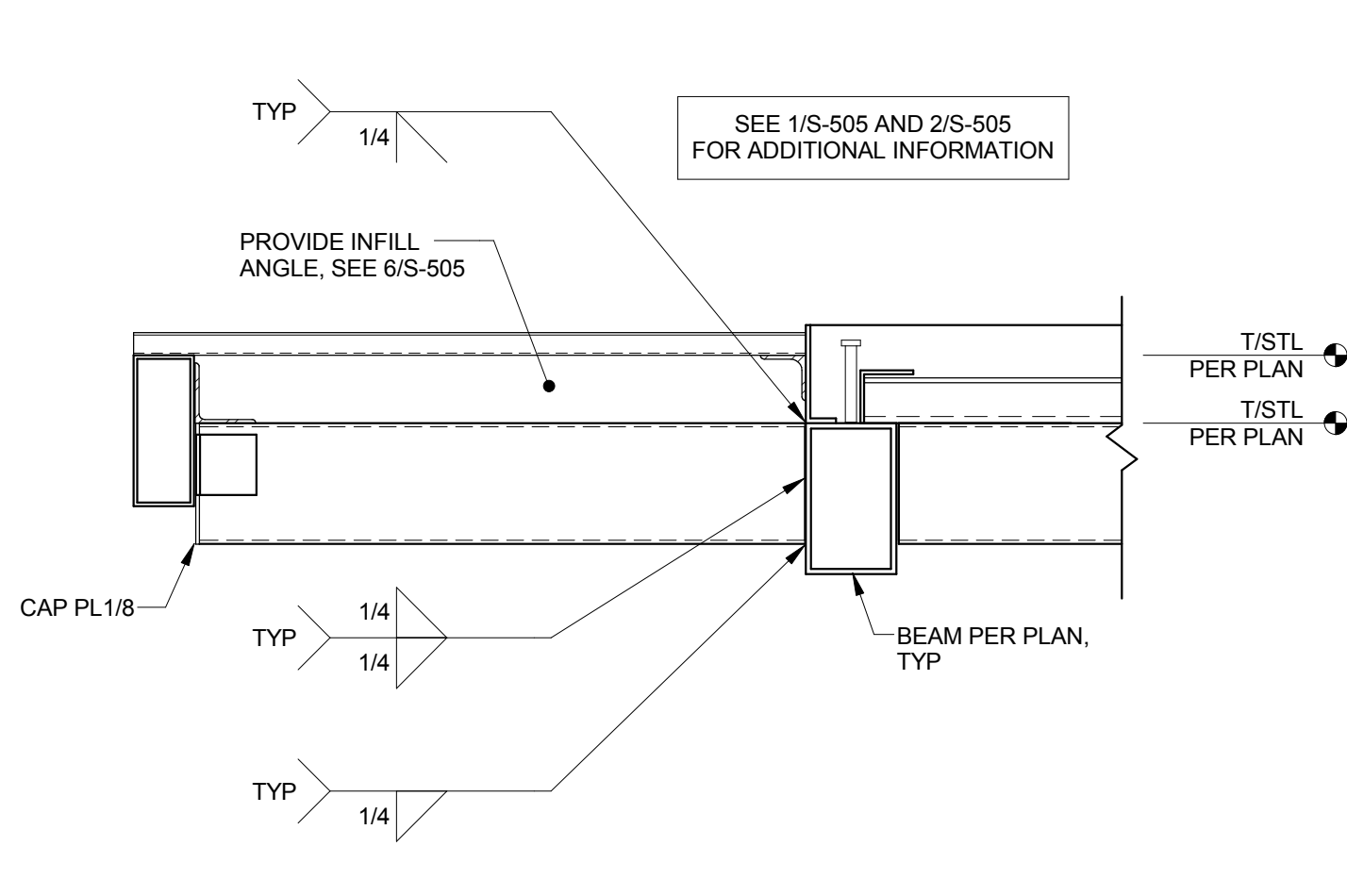


8 SECTION  
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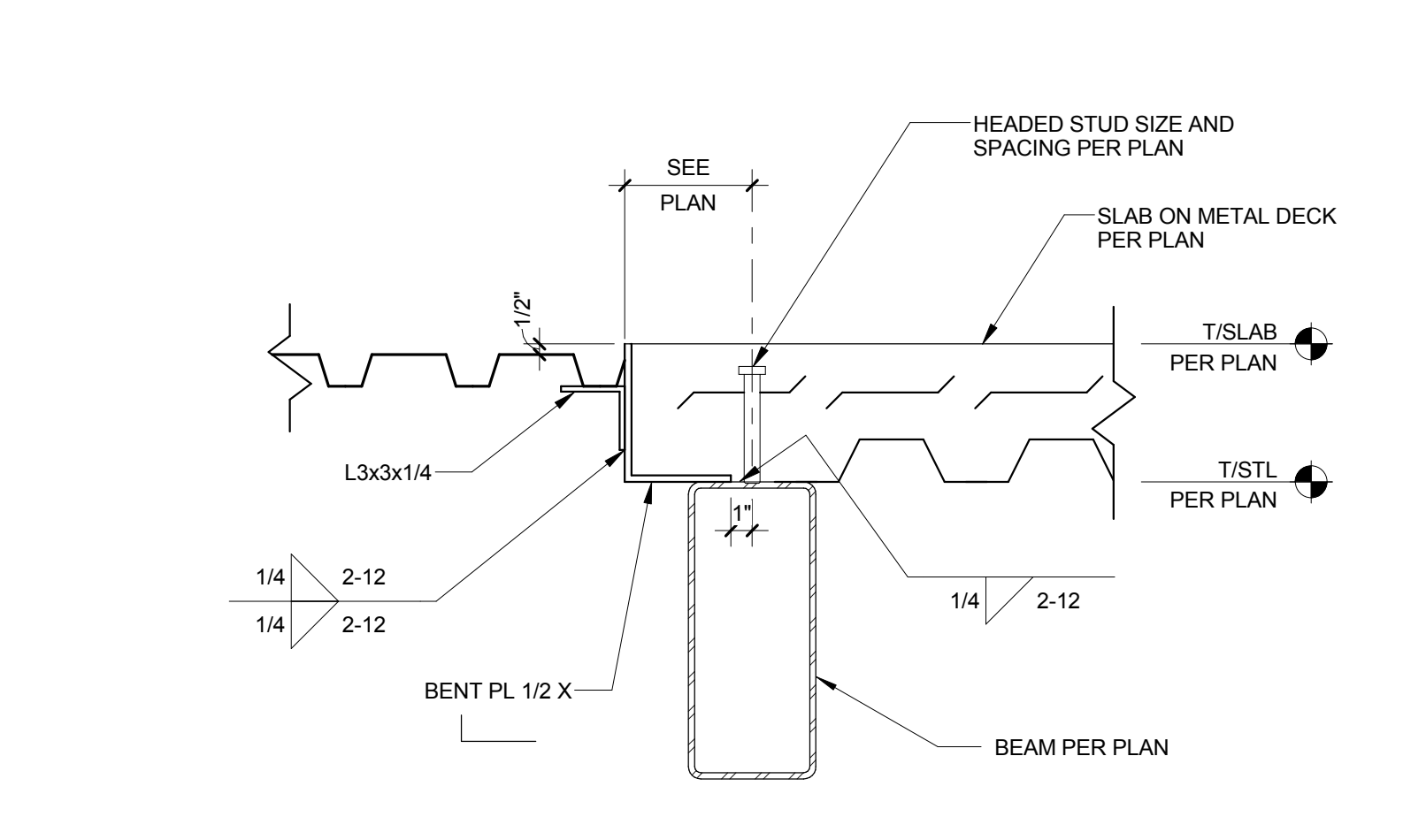
NOTES:  
1. CONTRACTOR SHALL COORDINATE LOCATION OF REINF ATTACHMENT TO PLATE AND HSS ATTACHMENT REQUIREMENTS.



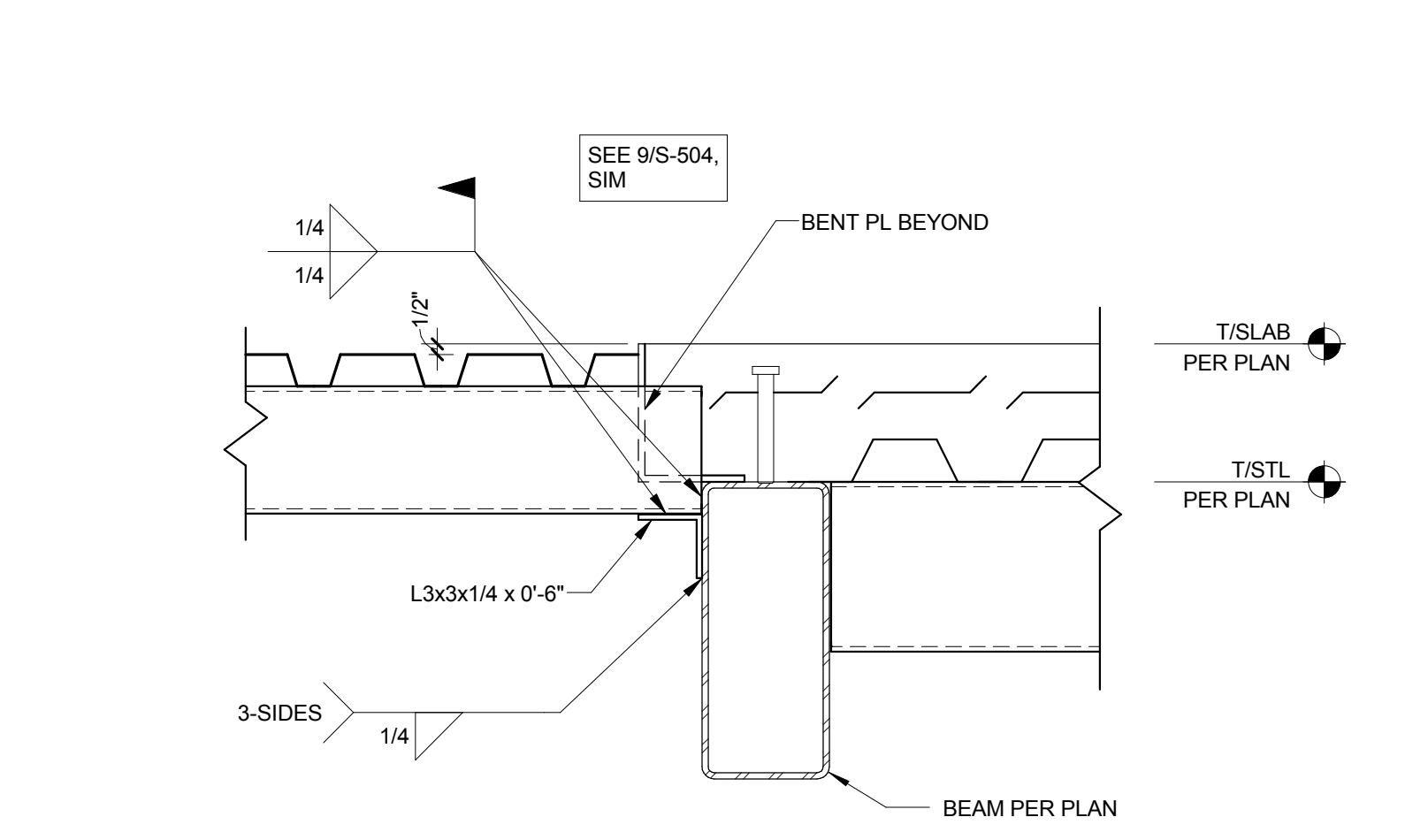
9 SECTION  
S-505 1" = 1'-0"



10 SECTION  
S-505 1" = 1'-0"

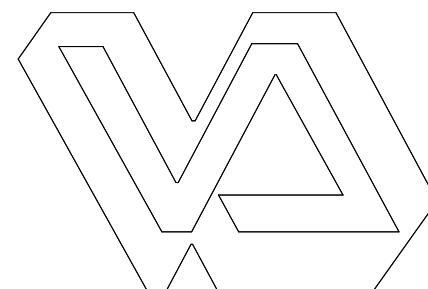


11 SECTION  
S-505 1 1/2" = 1'-0"



12 SECTION  
S-505 1 1/2" = 1'-0"

1 ADDENDUM #1	4/10/2014
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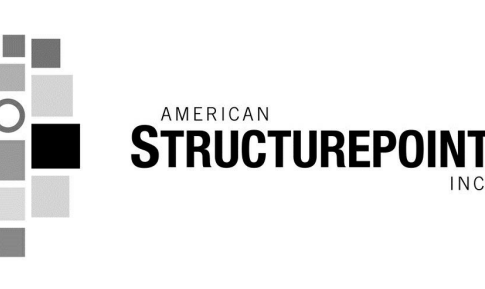


Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501



APOGEE  
Consulting Group, PA

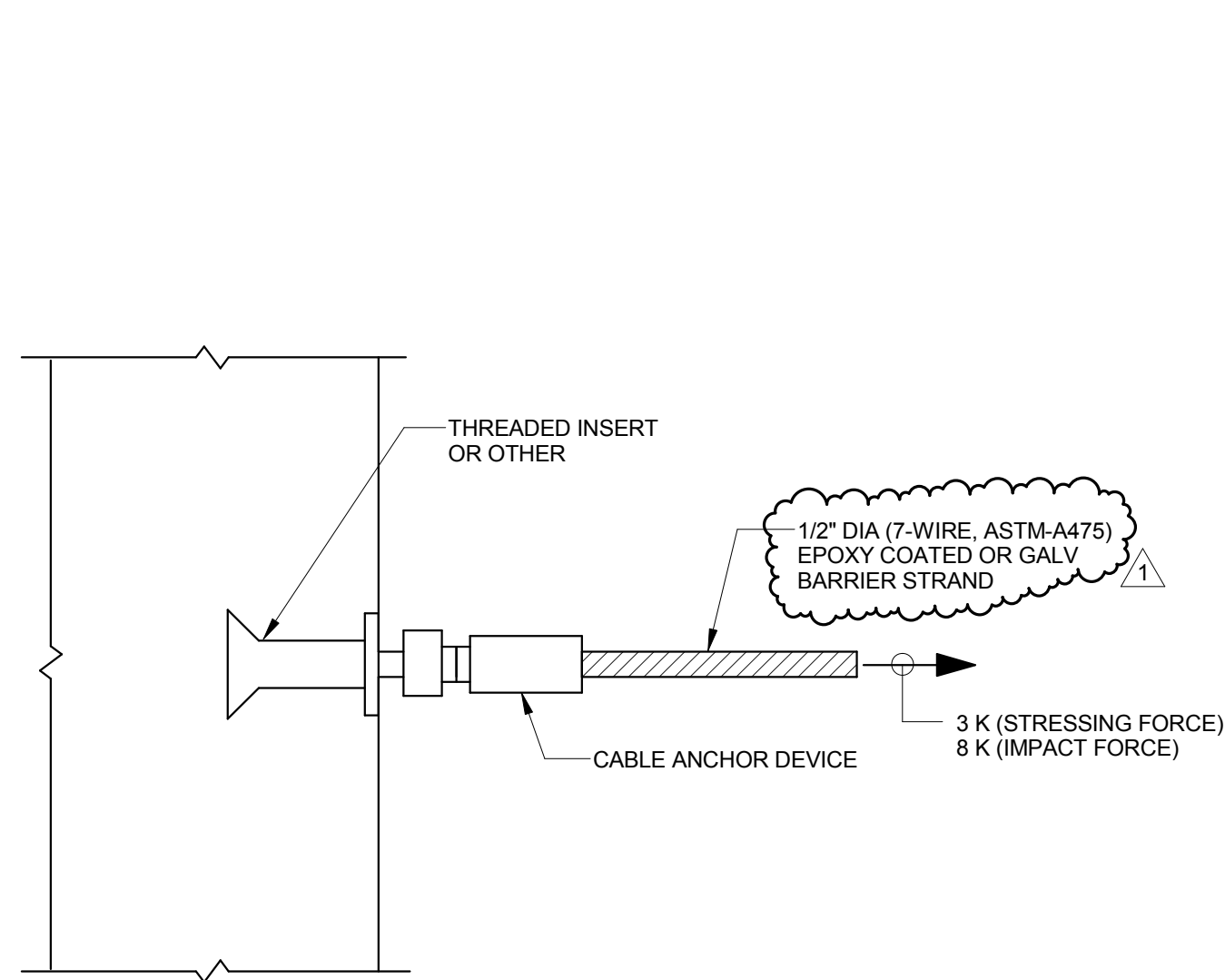
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PROJECT LEADER/ARCHITECT:  
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2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
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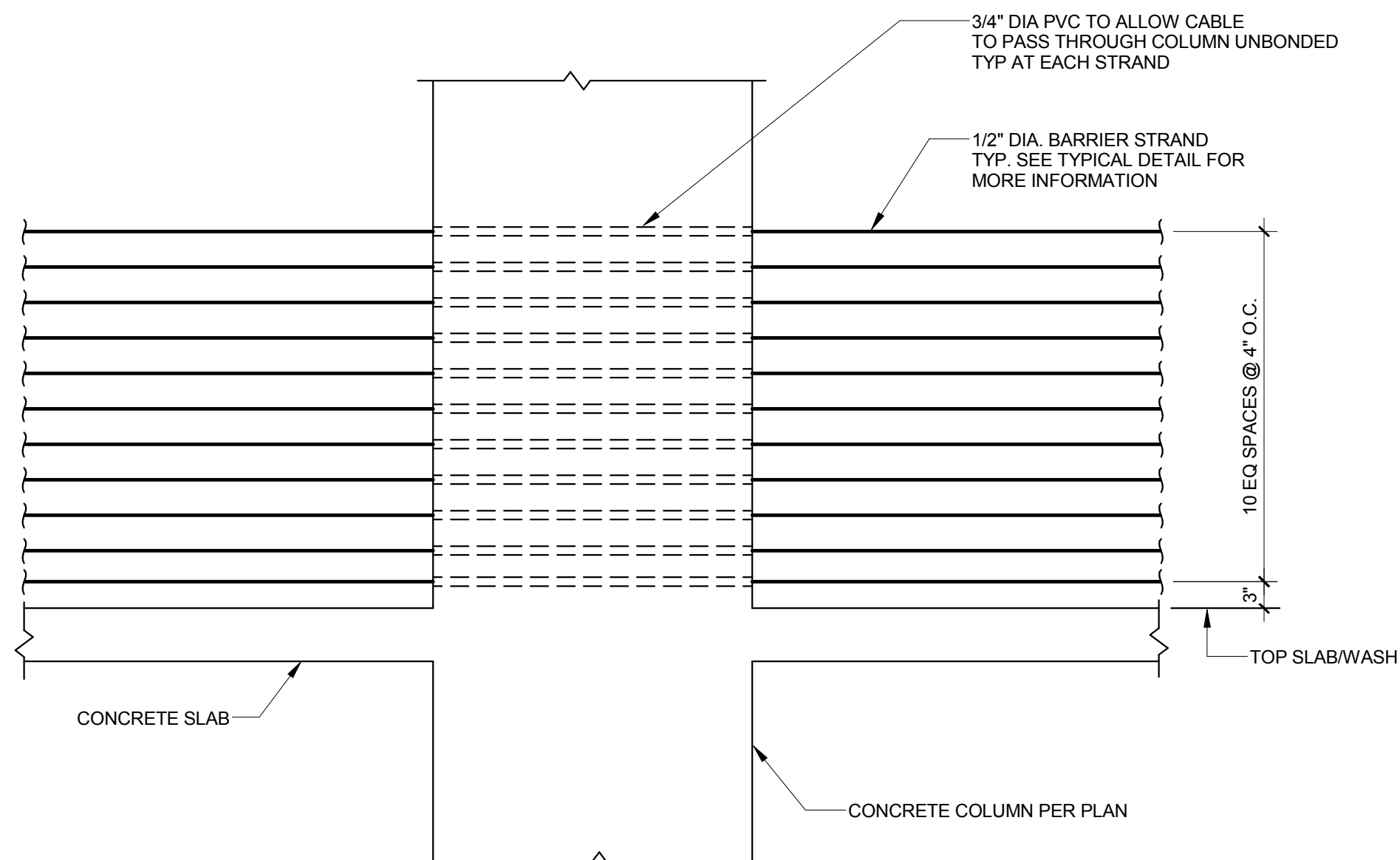
ADDENDUM #1 FOR CONSTRUCTION					
Drawing Title <b>STEEL SECTIONS AND DETAILS</b>	Project Title PARKING GARAGE	Project Number 12.1042	OFFICE OF FACILITIES MANAGEMENT		
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA MC	Building Number Bldg 39			
Date 4/10/2014	Checked By: JAP	Drawn By: BGC	Drawing Number <b>S-505</b>	VA Project Number 575-206	Department of Veterans Affairs





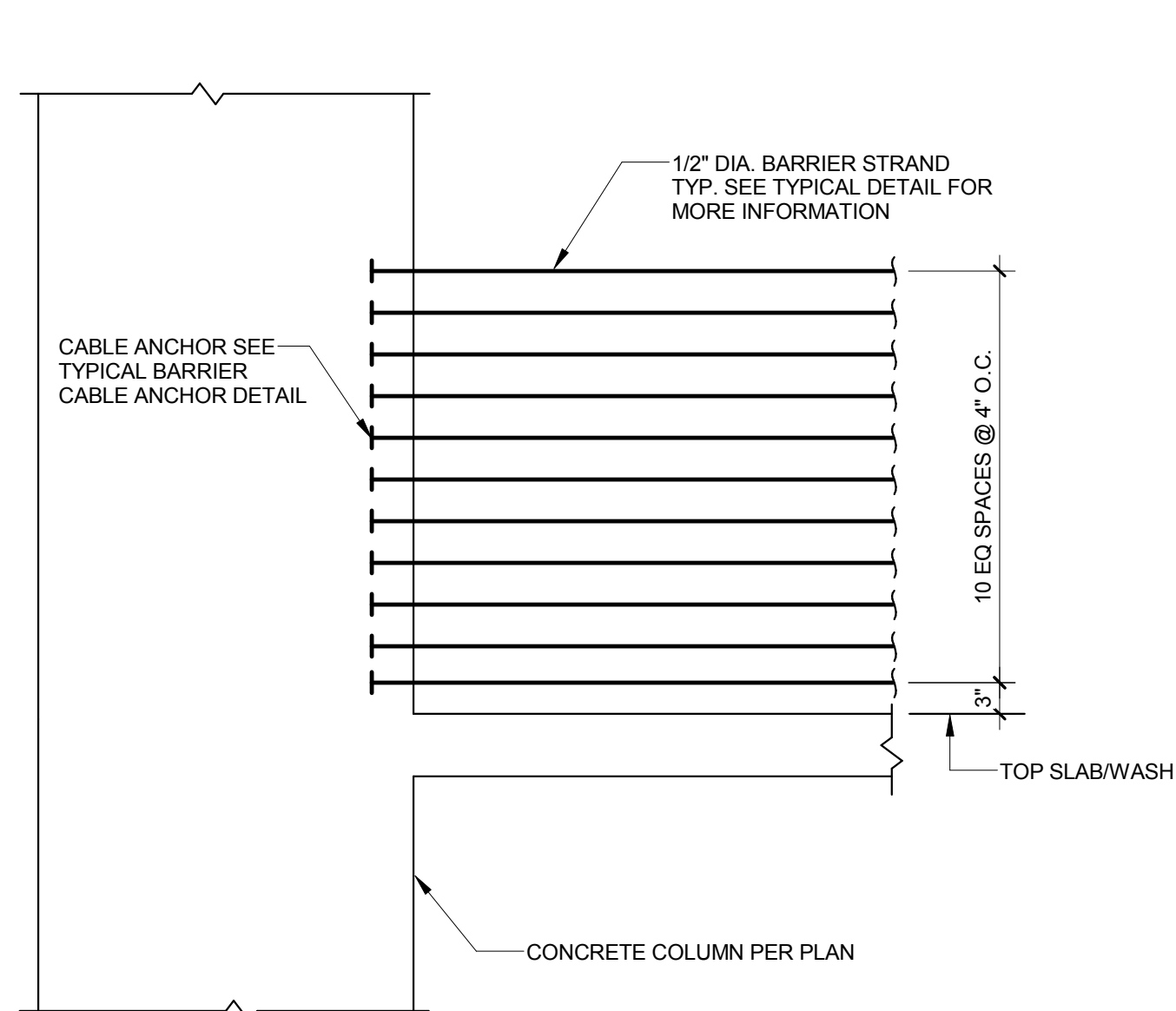
- NOTES:
- 1) PROVIDE INSERT/ ANCHOR WITH 2X THE CAPACITY OF THE DESIGN FORCE.
  - 2) SUBMIT ANCHOR LOCATIONS/ REACTIONS AND PRODUCT INFORMATION TO ARCHITECT / ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
  - 3) BARRIER CABLE SUPPLIER IS RESPONSIBLE FOR ALL CABLE, CONNECTIONS, AND INSTALLATION AS SHOWN IN CONTRACT DOCUMENTS.

1 TYPICAL BARRIER CABLE ANCHORAGE  
S-601 N.T.S.



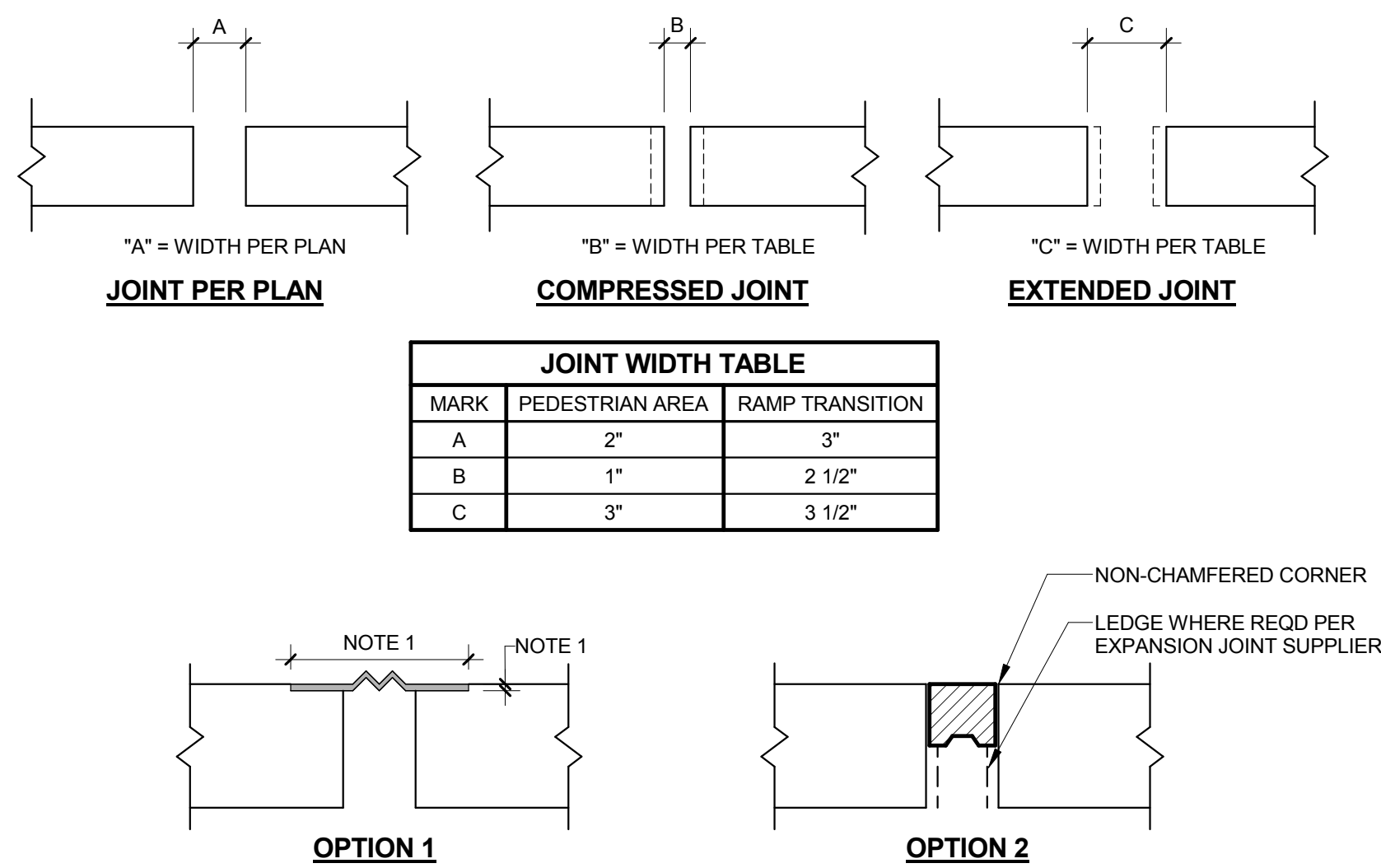
- NOTES:
- 1) SUBMIT ANCHOR LOCATIONS/ REACTIONS AND PRODUCT INFORMATION TO ARCHITECT / ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

2 TYPICAL INTERIOR COLUMN AT CABLE BARRIER  
S-601 N.T.S.



- NOTES:
- 1) SUBMIT ANCHOR LOCATIONS/ REACTIONS AND PRODUCT INFORMATION TO ARCHITECT / ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

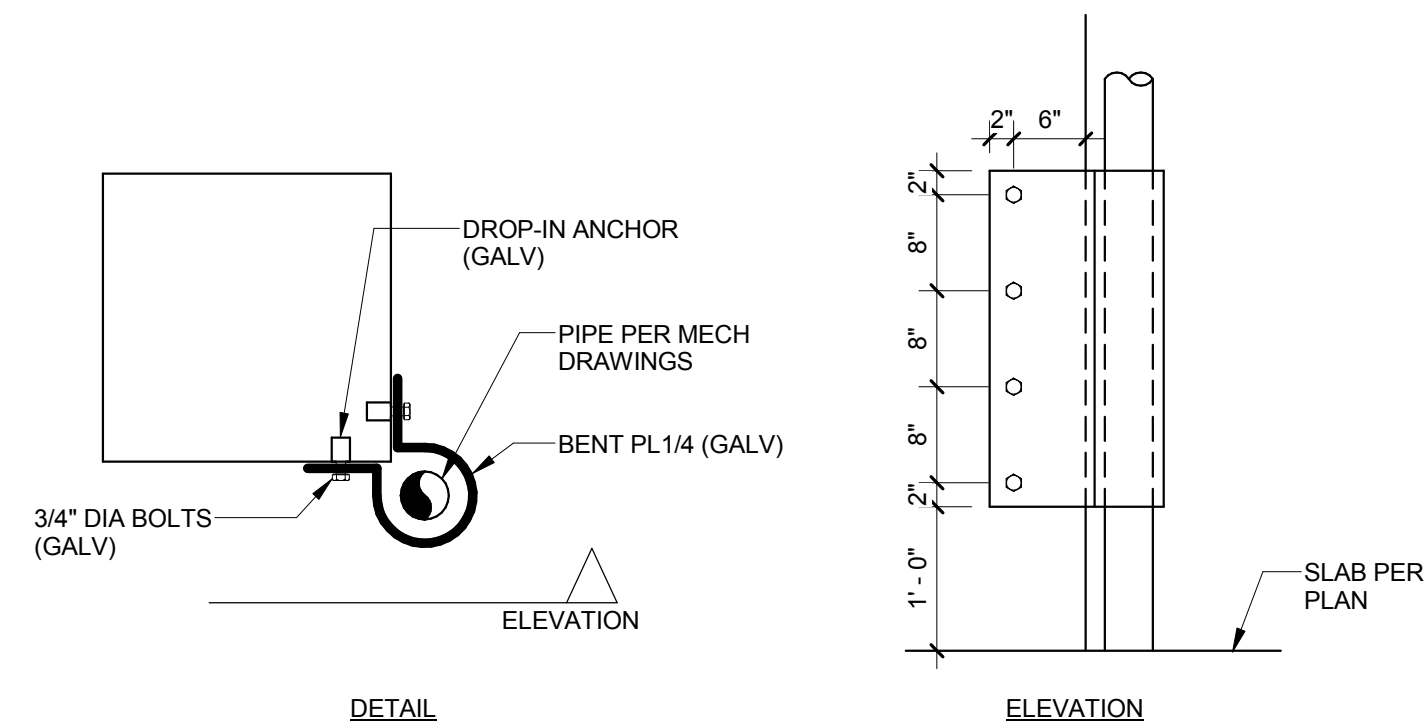
3 TYPICAL PERIMETER COLUMN AT CABLE BARRIER  
S-601 N.T.S.



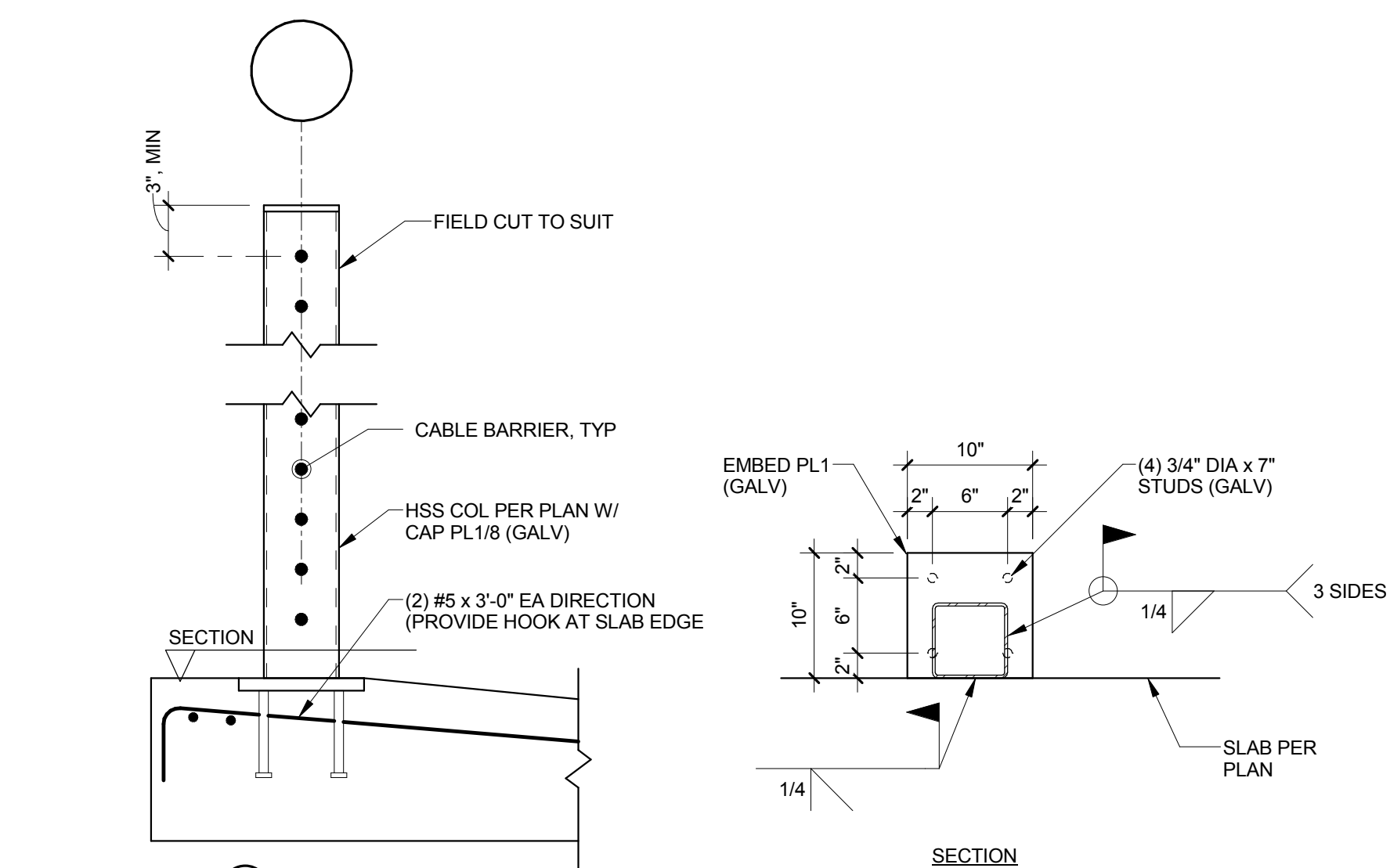
JOINT WIDTH TABLE		
MARK	PEDESTRIAN AREA	RAMP TRANSITION
A	2"	3"
B	1"	2 1/2"
C	3"	3 1/2"

- NOTES:
- 1) BLOCK OUT DIMENSIONS PER EXPANSION JOINT MANUFACTURER.
  - 2) ACCOUNT FOR ACTUAL JOINT WIDTH AT TIME OF INSTALLATION DUE TO CREEP, SHRINKAGE, AND TEMPERATURE MOVEMENT.
  - 3) INSTALL EXPANSION JOINT WITHIN (4) WEEKS FOLLOWING CONCRETE PLACEMENT.
  - 4) SEE ARCH PLANS FOR EXPANSION JOINT TYPE.

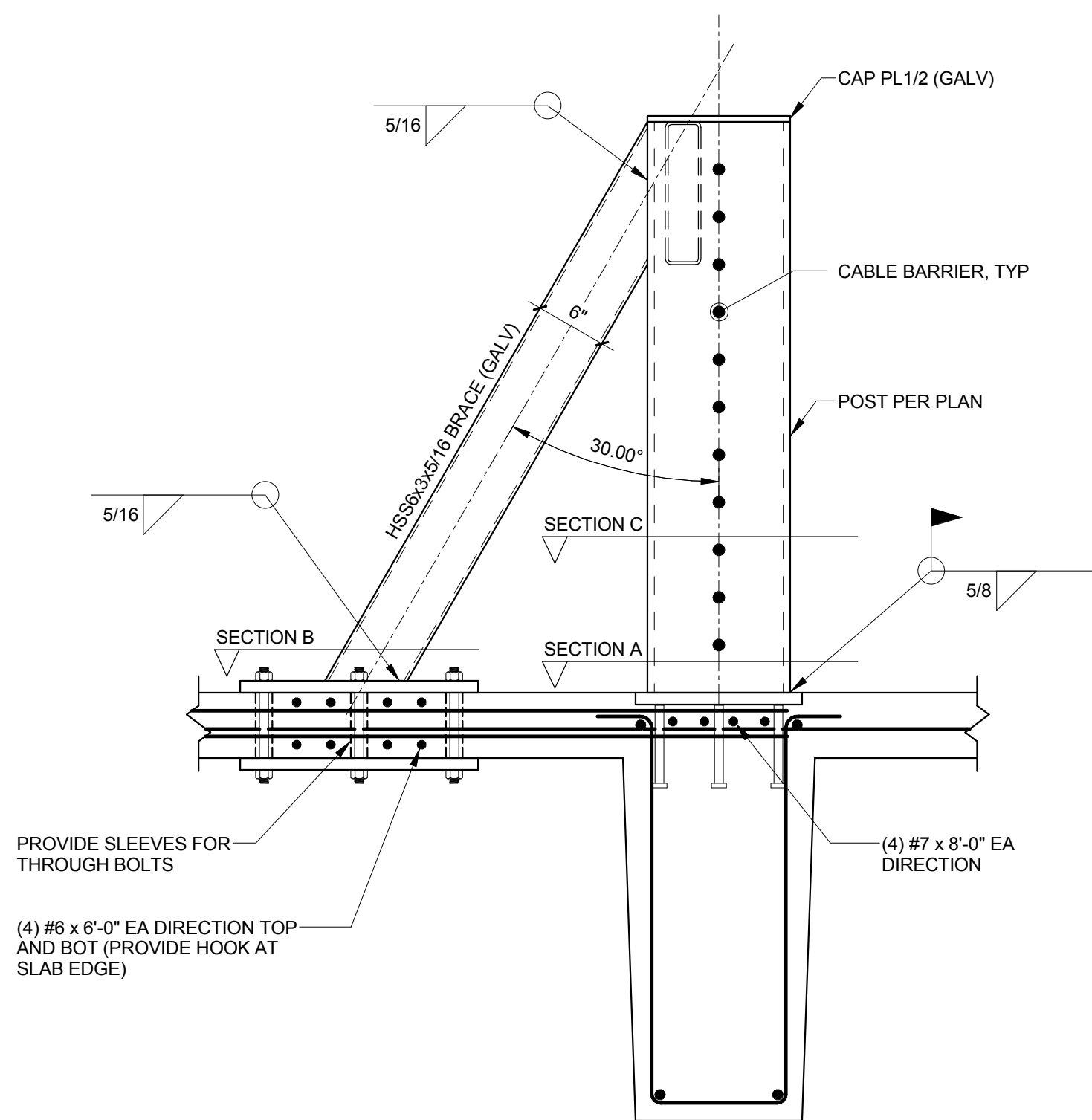
4 TYPICAL EXPANSION JOINT DETAILS  
S-601 N.T.S.



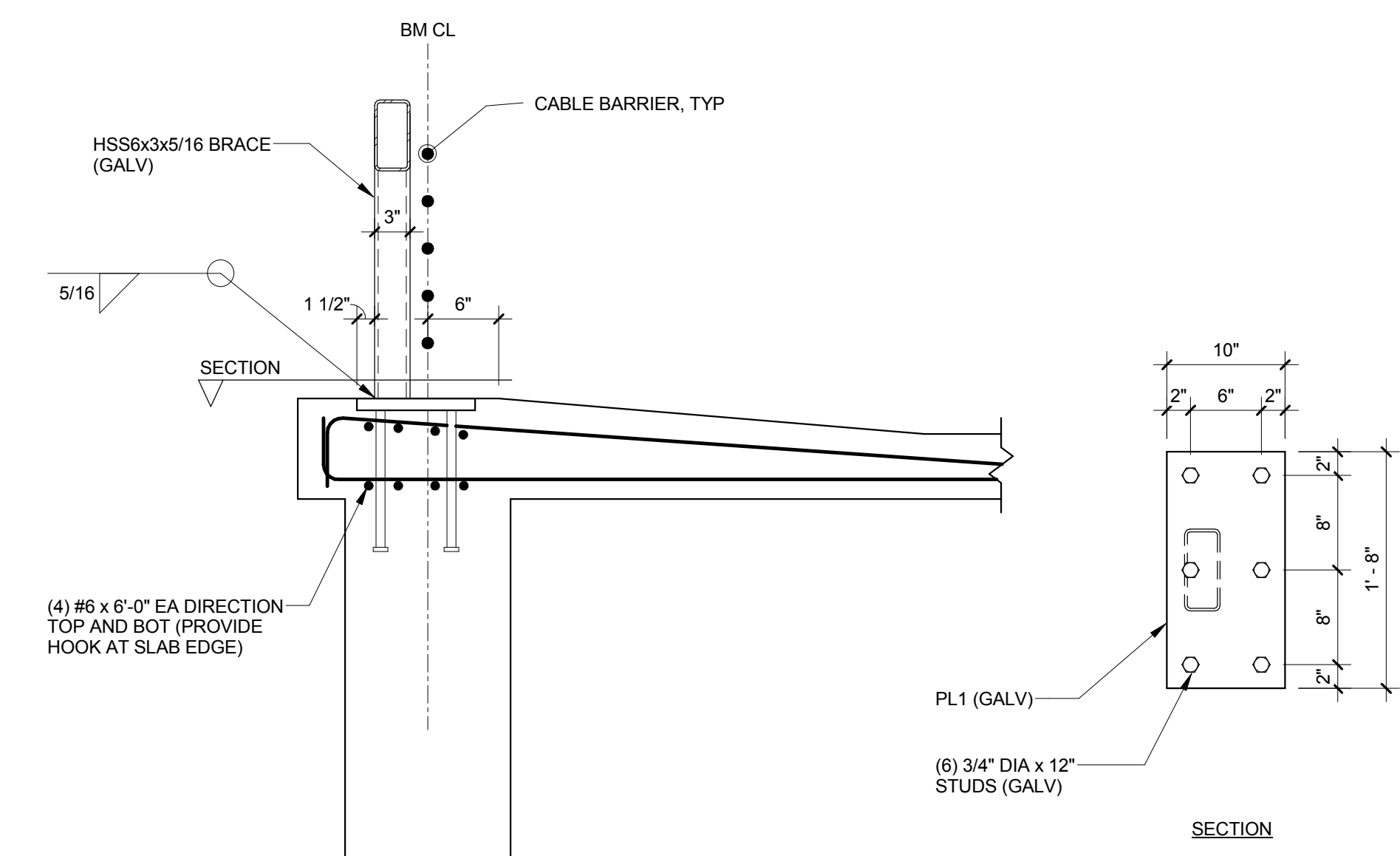
5 TYPICAL PIPE BENT PLATE WRAP DETAIL  
S-601 N.T.S.



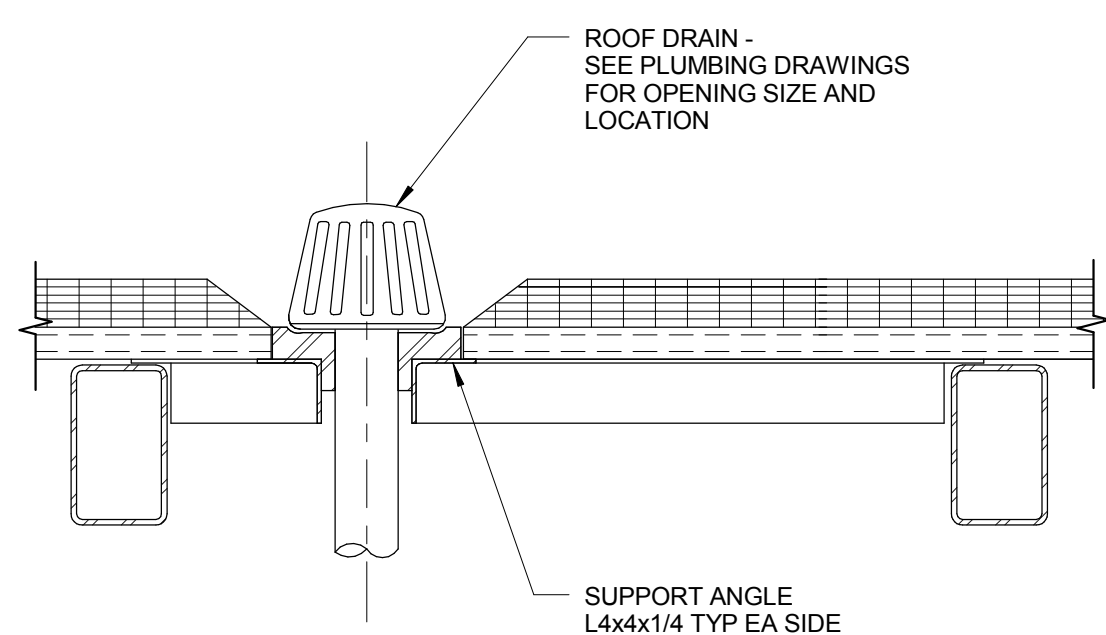
6 SECTION  
S-601 1" = 1'-0"



7 SECTION  
S-601 1" = 1'-0"

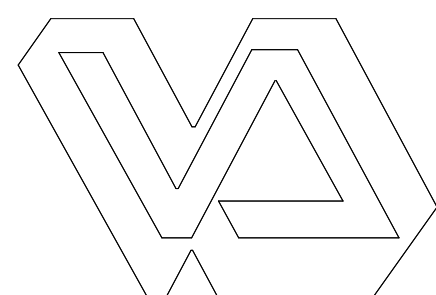


8 SECTION  
S-601 1" = 1'-0"



9 TYPICAL ROOF DRAIN SUPPORT  
S-601 1" = 1'-0"

1 ADDENDUM #1	4/10/2014
Revisions:	Date



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ADDENDUM #1 FOR CONSTRUCTION

Drawing Title MISCELLANEOUS DETAILS	Project Title PARKING GARAGE	Project Number 12.1042 Building Number Bldg-39	OFFICE OF FACILITIES MANAGEMENT
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA MC Date 4/10/2014	Drawing Number S-601 Checked By: JAP Drawn By: BGC	VA Project Number 575-206 Department of Veterans Affairs

GENERAL NOTES:

GENERAL REQUIREMENTS

1. ATTENTION ALL USERS OF THESE DRAWINGS, GENERAL CONTRACTORS, SUB CONTRACTORS, MANUFACTURERS, SUPPLIERS, CAREFULLY AND THOROUGHLY REVIEW THESE GENERAL NOTES. IT IS YOUR RESPONSIBILITY TO KNOW AND ADHERE TO THESE REQUIREMENTS.
2. DO NOT PRESUME THAT YOUR SCOPE OF WORK IS SINGULARLY DEFINED. YOUR SCOPE OF WORK IS DEFINED THROUGHOUT THE ENTIRE SET OF DRAWINGS AND SPECIFICATIONS AND IS NOT CONTAINED IN JUST ONE SERIES OF DRAWINGS OR DIVISION OF SPECIFICATIONS. YOU MUST REVIEW THE ENTIRE SET OF CONTRACT DOCUMENTS TO DETERMINE YOUR SCOPE OF WORK.
3. EVERY EFFORT HAS BEEN MADE TO MAKE THESE DOCUMENTS CONCISE AND COORDINATED, TO DEFINE WORK IN THE MOST LOGICAL PLACE AND TO ELIMINATE REDUNDANCY. KEEP IN MIND HOWEVER THAT YOUR SCOPE OF WORK CAN BE CONTAINED IN VARIOUS PLACES, WITH VARYING DESCRIPTIONS. DO NOT CONSIDER THAT THERE IS ONE CUSTOMARY PLACE TO LOCATE YOUR WORK. THERE IS A DANGER OF OMITTING WORK FROM YOUR SCOPE BECAUSE THE ENTIRE SET OF DOCUMENTS WAS NOT REVIEWED.
4. MECHANICAL AND ELECTRICAL DRAWINGS SHOW INFORMATION IN A DIAGRAMMATIC FASHION WITHOUT DIMENSIONING. THE GENERAL CONTRACTOR IS TO COORDINATE THE LOCATIONS OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT WITH RESPECT TO THE ARCHITECTURAL AND STRUCTURAL DETAILING OF SHAFTS, CHASES, AND SUCH.
5. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH SITE CONDITIONS AS THEY MAY AFFECT CARRYING OUT THE WORK AS DESCRIBED IN THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INVESTIGATE, VERIFY, AND BE RESPONSIBLE FOR ALL CONDITIONS OF THE PROJECT, AND NOTIFY THE ARCHITECT OF ANY CONDITIONS THAT REQUIRE MODIFICATION BEFORE PROCEEDING WITH THE WORK.

6. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, LABOR, AND SERVICES NECESSARY TO COMPLETE THE WORK.
7. ALL PERSONS DIRECTLY OR INDIRECTLY ASSOCIATED WITH THE PROJECT SHALL BE FAMILIAR WITH THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT, AND IMPLEMENT THOSE RULES AS THEY APPLY TO THIS PROJECT.
8. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH THE BUILDING CODES AS NOTED ON CODE SHEETS.
9. CONTRACTOR SHALL SUBMIT CONFORMATION OF ORDERED MATERIALS OR ITEMS NECESSARY TO COMPLETE THE PROJECT WITH PROJECTED DELIVERY DATE GREATER THAN FOUR WEEKS.
10. ALL SUBCONTRACTORS SHALL SUBMIT SHOP DRAWINGS AS REQUIRED FOR APPROVAL PRIOR TO COMMENCING ANY WORK.
11. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL TRADES AND THE PREVENTION OF CONFLICT BETWEEN ALL TRADES.
12. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITY LINES. LOCATIONS SHOWN ARE APPROXIMATE. REPAIR ALL DAMAGE TO UTILITY LINES CAUSED BY CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.

MANUFACTURER'S TRADE NAMES AND NUMBERS USED HEREIN ARE ONLY TO IDENTIFY COLORS, FINISHES, TEXTURES AND PATTERNS AS THE OF DESIGN. PRODUCTS OF AUTHORIZED EQUAL MANUFACTURERS EQUIVALENT TO COLORS, FINISHES, TEXTURES AND PATTERNS OF MANUFACTURERS LISTED THAT MEET THE REQUIREMENTS OF TECHNICAL SPECIFICATIONS IN EVERY RESPECT MAY BE ACCEPTABLE WITH SUBMITTAL OF A COMPLETED SUBSTITUTION REQUEST CONTAINING ALL PRODUCT DATA, TESTING AND ACTUAL SAMPLES AND UPON APPROVAL IN WRITING BY CONTRACTING OFFICER.

CONSTRUCTION NOTES

1. PROVIDE SEALANT AT ALL JOINTS OR CRACKS WHICH OCCUR WHERE DISSIMILAR MATERIALS INTERSECT PERPENDICULAR TO EACH OTHER, AND THE INTERSECTION IS EXPOSED TO VIEW, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
2. PAINT ALL EXPOSED STEEL UNLESS NOTED OTHERWISE.
3. WHERE DOORS DOORS IN PARTITIONS ARE NOT DIMENSIONALLY LOCATED ON THE PLANS PROVIDE A MINIMUM HINGE SIDE JAMB DIMENSION OF 6" FROM DOOR OPENING TO ADJACENT PERPENDICULAR WALL.
4. PROVIDE HOISTWAY BEAM AND REINFORCING AT TOP OF ELEVATOR SHAFT.

DRAWINGS AND DIMENSIONS

1. THE CONTRACT DOCUMENT DRAWINGS HAVE BEEN PREPARED USING REVIT SOFTWARE IN A MICROSOFT WINDOWS ENVIRONMENT. A BUILDING INFORMATION MODEL (BIM) WAS DEVELOPED SOLELY TO COMMUNICATE THE DESIGN TO THE OWNER AND IS NOT SUITABLE FOR ANY OTHER PURPOSE. FOR EXAMPLE THE REVIT MODEL IS NOT SUITABLE FOR COST ESTIMATING, SYSTEMS PERFORMANCE, COORDINATION, SCHEDULING, OR FACILITIES MANAGEMENT.
2. THESE DOCUMENTS WERE PRODUCED USING THE CONSTRUCTION SPECIFICATIONS INSTITUTE'S UNIFORM DRAWING SYSTEM AND THE NATIONAL CAD STANDARD AS GUIDES.
3. ANY INDICATION OF PROJECT LIMITS OR LINES OF DEMARCATION ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, AND ARE NOT TO BE TAKEN LITERALLY. ACTUAL CONTRACT LIMITS ARE TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE OWNER BEFORE ACTUAL CONSTRUCTION WORK BEGINS.
4. DRAWINGS ARE PREPARED USING DIMENSIONS AND PRODUCT CONFIGURATIONS OR DETAILS OF SPECIFIC MANUFACTURERS. DIMENSIONS AND DETAILS FOR SPECIFIC PRODUCTS MAY CHANGE BEFORE THEY ARE ACTUALLY INCORPORATED INTO THE WORK, AND PRODUCTS BY OTHER MANUFACTURERS MAY ALSO BE ACCEPTABLE. THEREFORE, ACTUAL INSTALLATION DETAILS AND DIMENSIONS MAY DIFFER FROM THOSE SHOWN. CONTRACTOR SHALL VERIFY INSTALLATION REQUIREMENTS FOR ALL PRODUCTS TO BE INCORPORATED IN THE WORK (INCLUDING PARTITION THICKNESSES FOR RECESSED OR SEMI-RECESSED PRODUCTS), AND IS RESPONSIBLE FOR ACCOMMODATING AND COORDINATING CHANGES TO OTHER MATERIALS OR PRODUCTS THAT ARE NECESSARY BECAUSE OF THESE DIFFERENCES.
5. THE DRAWINGS AND SPECIFICATIONS ARE SEPARATED INTO DISCIPLINES FOR THE CONVENIENCE. THE SEPARATIONS USED HEREIN ARE USED ONLY FOR THE PURPOSES OF CONVENIENCE AND REFERENCE AND IN NO WAY DO THEY DEFINE OR LIMIT THE SCOPE OR INTENT OF ANY PART OF THE DRAWINGS, OR OF THE DRAWINGS AND SPECIFICATIONS AS A WHOLE. THE FACT THAT THE DRAWINGS ARE SEPARATED IN NO WAY SUGGESTS THAT THE WORK IS NOT TO BE CONSTRUCTED AS A COMPLETE, INTEGRATED AND UNIFIED WHOLE.
6. THE DRAWINGS AND SPECIFICATIONS, INCLUDING DRAWINGS PREPARED BY SPECIFIC ENGINEERING DISCIPLINES (SUCH AS CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, ETC.) ARE COMPLEMENTARY. ITEMS SHOWN IN ANY ONE LOCATION IN THE DRAWINGS SHALL BE CONSIDERED TO BE REQUIREMENTS OF THE CONTRACT FOR CONSTRUCTION. IN THE EVENT OF AN INCONSISTENCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT, THE CONTRACTOR SHALL SEEK CLARIFICATION OR INTERPRETATION FROM THE ARCHITECT PRIOR TO BIDDING. WHERE INCONSISTENCIES ARE NOT CLARIFIED PRIOR TO BIDDING, AND WHERE THE ACTUAL SOLUTION OR INTENT CANNOT BE REASONABLY INFERRED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY OR GREATER QUANTITY OF WORK.
7. USE OF THE WORD "VERIFY" POINTS OUT A SITUATION WHICH MUST BE CONFIRMED PRIOR TO PROCEEDING WITH THE WORK. FABRICATION OF EQUIPMENT, OR ORDERING MATERIAL. NOTIFY THE ARCHITECT OF ANY DISCREPANCY
8. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT IMMEDIATELY SHOULD ANY DISCREPANCIES BE FOUND IN THE DRAWINGS AND SPECIFICATIONS.
9. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL FIELD CONDITIONS AND DIMENSIONS AS THEY RELATE TO THIS PROJECT. SHOULD DISCREPANCIES EXIST BETWEEN THE WORK INDICATED AND ACTUAL FIELD CONDITIONS NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
10. DO NOT SCALE THE DRAWINGS. DRAWING SCALES AS INDICATED ARE FOR REFERENCE ONLY AND ARE NOT INTENDED TO ACCURATELY DEPICT ACTUAL OR DESIGNATED CONDITIONS. WRITTEN DIMENSIONS SHALL GOVERN.
11. ALL DIMENSIONS INDICATED ARE TO FACES OF CMU/STUD/STRUCTURAL MATERIALS OR COLUMN GRID LINES UNLESS NOTED OTHERWISE. MASONRY DIMENSIONS ARE MODULAR IN THAT THEY INCLUDE THE GROUT JOINT. ROUGH OPENINGS ALLOW FOR SHIM SPACE.
12. THE TERM "ALIGN" REFERS TO LOCATING DIFFERENT COMPONENTS OF CONSTRUCTION TO PROVIDE A FLUSH FINISH SURFACE.

CODE ANALYSIS

A. Occupancy Classification

1. The parking garage is classified as low-hazard storage facilities, a Group S-2 Occupancy.
2. Definitions:

1. Enclosed Parking Structure: Any parking structure that is not an open parking structure.

2. Open Parking Structure: A parking structure that meets the requirements of NFPA 88A Section 4.7.1.

i. Each parking level shall have wall openings to the atmosphere for an area of not less than 1.4 square feet for each linear foot of the exterior perimeter.

ii. Opening shall be distributed over a minimum of 40% of the building perimeter or uniformly over two opposing sides.

iii. Interior wall lines and columns shall be at least 20% open, with openings distributed to provide ventilation.
3. Ramp Type Parking Structure: A parking Structure that utilizes sloped ramps for vertical vehicle circulation.

B. construction classification

1. The parking garage is to be constructed in accordance with the provisions of NFPA 88A as defined in NFPA 220. Construction type for a building exceeding 25 feet in height shall be Type I, Type II(2) or Type II(1). An open parking garage of these construction types may be unlimited in height and area.
2. The Parking Garage has four levels above grade and is classified as an open parking structure. The construction classification is Type IB based upon the occupancy and area of the building.
3. Primary structural elements of Type II (2) buildings will be 2-hour rated, primary structural elements supporting a roof only will be 1-hour rated, and all floor construction will have a fire resistance rating of 2-hours. Primary structural elements of Type II(1) buildings will be 1-hour rated. Primary structural elements supporting a roof only will be 1-hour rated, and all floor construction will have a fire resistance rating of 1-hour.
4. Primary structural members are considered to be bearing walls, columns, and the girders, beams, trusses and spandrels having direct connections to columns and bracing members designed to carry gravity loads. The members of floor or roof panels which have no connection to the columns and do not carry a gravity load are considered secondary members and are not part of the structural frame of a building.

C. FIRE RESISTANCE RATED SEPARATIONS

The Garages will be designed as nonseparated mixed uses. Incidental uses are not anticipated, so no fire rated separation is required between occupancies. Interior building elements that require fire resistance ratings are listed below:

BUILDING ELEMENT	FIRE RESISTANCE RATING	CODE REFERENCE
Exit stair enclosures	Open (1,2)	NFPA 88A, 4.1.5
Exit stair enclosures	Open (1,2)	NFPA 88A, 4.1.5
Ramps	Open (1,2)	NFPA 101 4.2.8.3.1.1
Mechanical Exhaust and Supply duct systems where the duct system is located within the garage and serves only the garage	0	IBC 708.2 Excep. 15
Other shafts which connect 2 or more stories	2 (1)	NFPA 101 4.2.8.3.1.1
Elevator machine rooms	2	IBC 3006.4
Emergency generator (if provided)	2	

1. Supporting structural members (located within one structural bay) must have the same fire resistance rating. The fire resistance rating must be carried through all structural members; extending to the foundation. In addition, the shaft construction must maintain the same fire rating as the floor construction.
2. Where nonrated walls or unprotected openings enclose the exterior of the stairway and the walls or openings are exposed by other parts of the building at an angle of less than 180 degrees, the building exterior walls within 3.048 m (10 ft) horizontally of a nonrated wall or unprotected opening must have a fire resistance rating of not less than 1-hour. Openings within such exterior walls must be protected by opening protectives having a fire protection rating of not less than ¾-hour. This construction must extend vertically from the ground to a point 3.048 m (10 ft) above the topmost landing of the stairway or to the roof line, whichever is lower.

Fire barriers will extend from the top of the floor below to the underside of the floor or roof deck above. The openings and penetrations in required exit enclosures will be protected with self-closing or automatic-closing opening protectives.

Openings in fire resistance rated walls will be protected in accordance with the following:

COMPONENT	WALLS AND PARTITIONS (HR) IBC 709	FIRE DOOR ASSEMBLIES (MIN) IBC 715
Elevator Hoistways, Elevator Machine Rooms	1 60	
Vertical Shafts (including enclosed exit stairways)	2 90	
Fire Barriers	2 90	1 45
	2 90	
	3 180	

Piping, conduit, and wire penetrations of fire rated construction will be protected by materials or systems of the same hourly rating listed by Underwriters Laboratories (UL), Factory Mutual (FM), or a National Recognized Testing Laboratory (NRTL). Duct, air transfer openings, and other penetrations through floors, shaft enclosures and other fire rated construction will be protected in accordance with the IBC.

D. BUILDING PLACEMENT

The code requires the exterior walls of buildings to be protected from one another based on the fire separation distance between buildings, or to a lot line. Fire separation distance is defined as the distance measured from the face of a building to one of the following three points:

1. The closest interior lot line;
2. To the centerline of a street, an alley or public way, or;
3. To an imaginary line between two buildings on the property.

No fire rated separation is required where the parking structure is separated by 10 feet. NFPA 88A 5.2.2

E. INTERIOR FINISH

Interior wall and ceiling finish to be designed in accordance with the NFPA 101.

1. Class A, B and C finish is permitted for interior walls and ceilings in rooms, and corridors. Class A or B finish is permitted for exits.
2. For the IBC Section 406.2.6 all floor surfaces shall be of concrete or other similar non-combustible and non-absorbent materials. Floor Finish shall not be less than Class II

F. EGRESS LIGHTING AND EXIT SIGNAGE

Emergency egress lighting will be provided throughout the common portions of the means of egress in accordance with The Life Safety Code

1. These areas include: drive lanes, corridors, exit access spaces within areas requiring two (2) or more means of egress, the lobby/entrance areas, exit stairs, and the exit discharge areas (including exterior locations until the public way).
2. Each required exit will be identified with an exit sign, including exit access, and within areas requiring multiple exits. Directional exit signs will also be provided to direct occupants toward the closest exit so that no occupant is more than 100 feet from an exit sign.
3. The egress lighting and exit signs will be provided with a secondary source of power in the event that the primary power source is disrupted. The secondary power source will consist of either internal batteries or a connection to an emergency power system.

G. MEANS OF EGRESS

Means of egress shall be in compliance with LSC and as modified by NFPA 88A. Egress requirements are based upon a non-sprinklered building. Exits must be so located on each story such that the maximum length of exit access travel, measured from the most remote point within a story along the natural and unobstructed path of egress travel to an exterior exit door at the level of exit discharge, an entrance to a vertical exit enclosure, an exit passageway, a horizontal exit, an exterior exit stairway or an exterior exit ramp, may not exceed the distances allowed by the Code. Egress requirements are outlined below.

1. Maximum travel distance: open parking garage – 300 feet
2. Common path of travel: 50 feet
3. Dead ends: 50 feet
4. Number of exits: At least two exits shall be provided from every floor/level. In certain conditions ramps may be substituted for an egress stair.
5. Egress Width Factor: LSC Table 7.3.3.1 requires a minimum egress width of 0.2 in per occupant for doors, ramps, and corridors and a minimum egress width of 0.3 in per occupant for stairs.
6. Occupant Load factor: LSC Table 7.3.1.2 requires an Occupant load factor of 500 s.f. per person be applied to storage use type facilities other than storage and mercantile occupancies. Parking garages are classified by chapter 42 of the LSC as storage type occupancies.
7. Remoteness of exits: Where two or more exits or exit access doorways are required from any portion of the exit access, at least two of the exit doors or exit access doorways must be placed a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the building or area to be served measured in a straight line between exit doors or exit access doorways.
8. Stairs Design (per the LSC 7.2.2):

Maximum Riser Height: 7 inches

Minimum Tread Length: 11 inches

Minimum Stair Width: 36 inches
- Guard: 42 inches (Required where elevation change exceeds 30 inches. Design shall prevent the passage of a 4 inch Sphere.)
- Handrail: 30-38 inches
- Minimum Clearance: 6 feet 8 inches (Measured vertically from nose of tread.)
- Signage: Required at each floor level per LSC 7.2.2.5.4

9. Ramp Design: per the LSC 7.2.5):

Maximum Slope: 1/12

Guard: 42 inches (Required where elevation change exceeds 30 inches. Design shall prevent the passage of a 4 inch Sphere.)

4 inch curbs required for drop off edge of ramp

Handrail: 30-38 inches (required for ramps with more than a 6 inch rise.

H. EMERGENCY ELEVATOR OPERATION

Planned and Future elevator will have a smoke/heat detector, located in its respective lobby, on each floor level. Upon activation of a lobby or machine room smoke detector, the elevators served by that lobby or machine room will be recalled to the main level of the building, one at a time. In the event that the alarm is on this designated level, the elevators will be recalled one at a time to an alternate level. It is proposed to recall only the elevator or group of elevators served by the affected lobby or elevator machine room.

After returning to the appropriate level, the elevators will stop, the doors will open, and the elevators will be rendered inoperable without the use of the fireman's key or until such time that they are manually reset to the normal operating mode. This mode of operation is provided for fire department use to allow for access to all levels served by the elevators.

K. PORTABLE FIRE EXTINGUISHERS

1. Portable fire extinguishers will be provided throughout the garages as required by IFC section 906.1 and spaced in accordance with NFPA 10, 2010 edition.

ADDENDUM #1 FOR CONSTRUCTION

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three inches = one foot

one and one half inches = one foot

one inch = one foot

three quarters inch = one foot

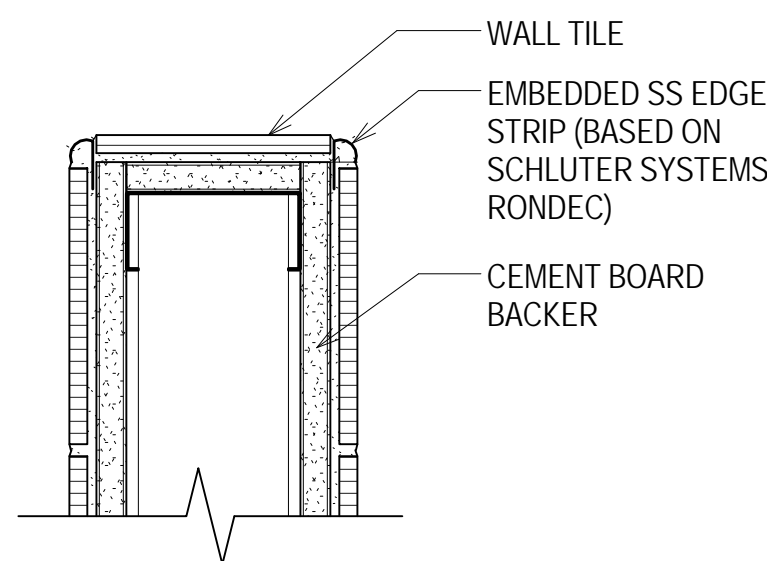
one half inch = one foot

three eighths inch = one foot

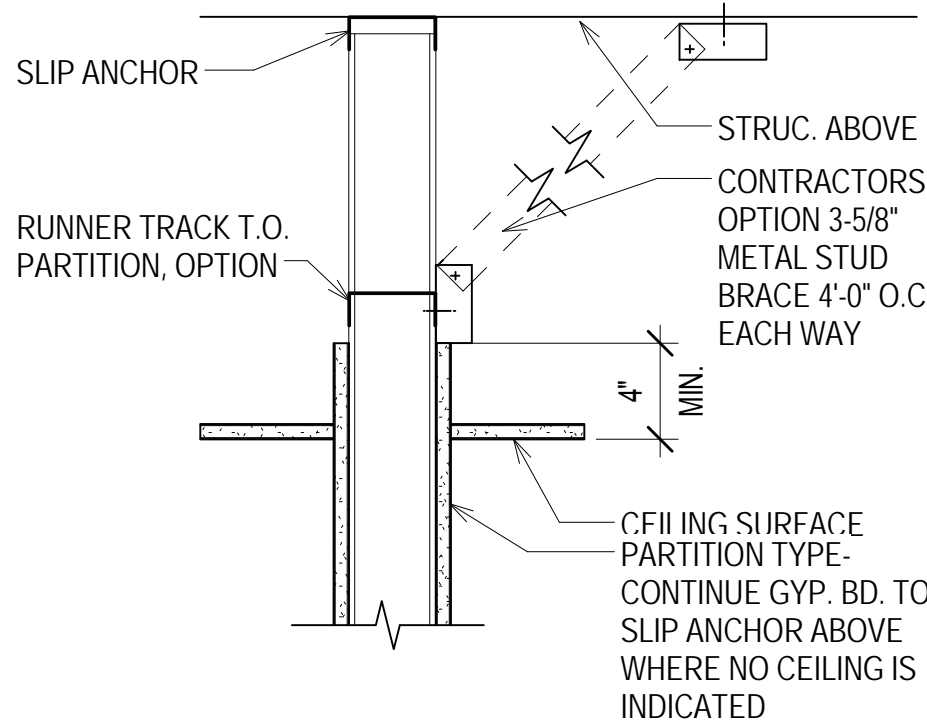
one quarter inch = one foot

one eighth inch = one foot

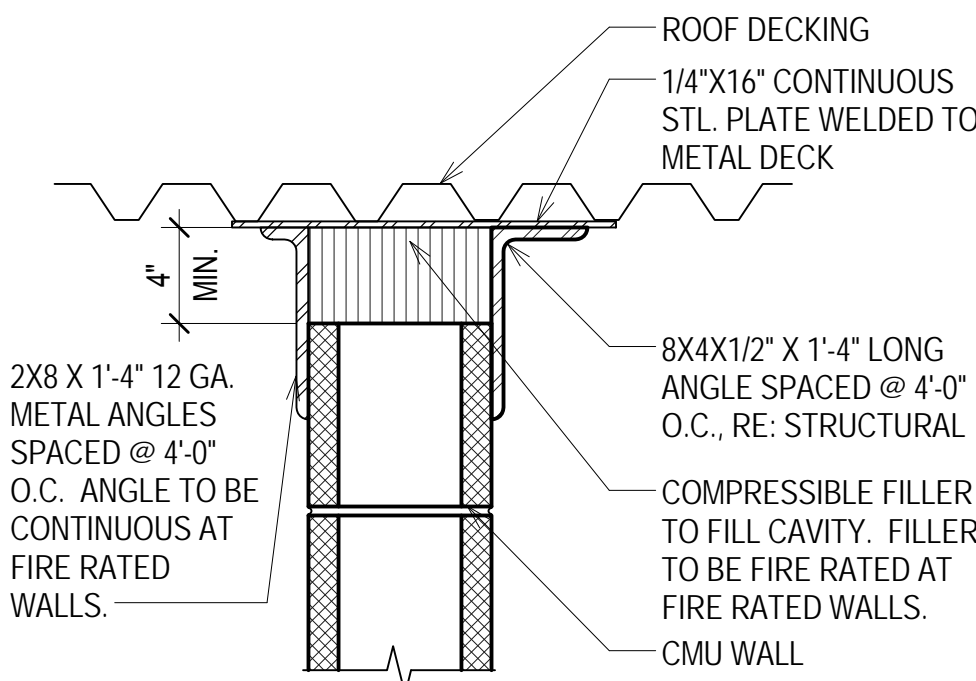
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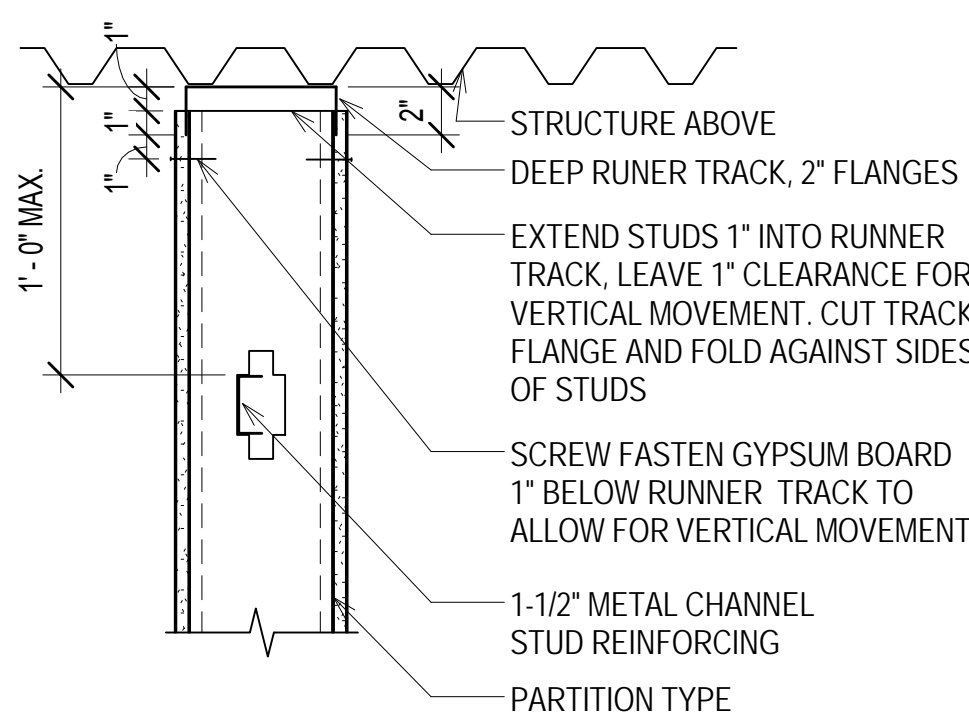
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A-011  
**TYPICAL WALL TILE EDGE**  
3" = 1'-0"



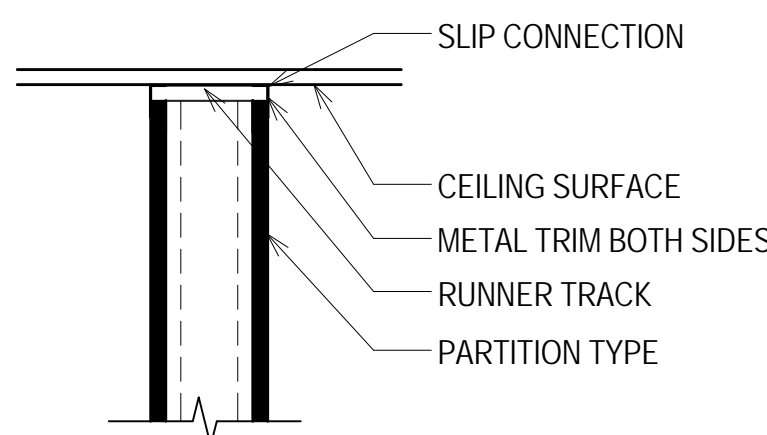
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A-011  
**TYPICAL PARTITION HEAD**  
1 1/2" = 1'-0"



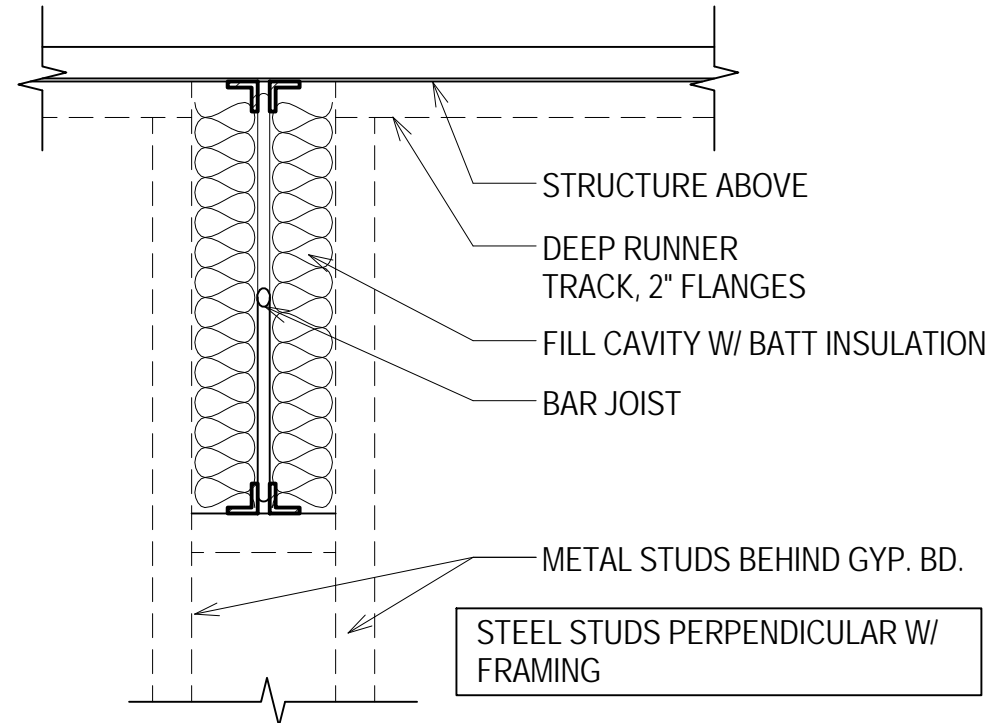
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**TYPICAL CMU PARTITION HEAD**  
1 1/2" = 1'-0"



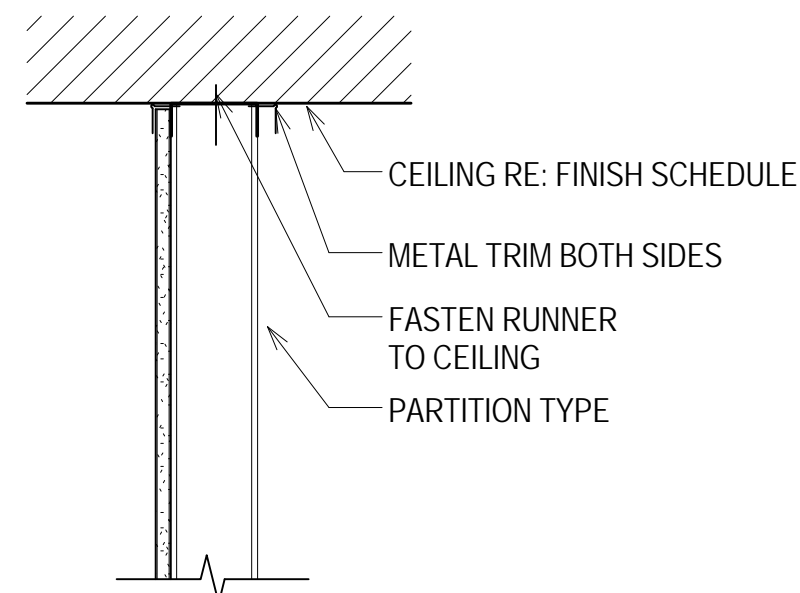
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A-011  
**SLIP ANCHOR**  
1 1/2" = 1'-0"



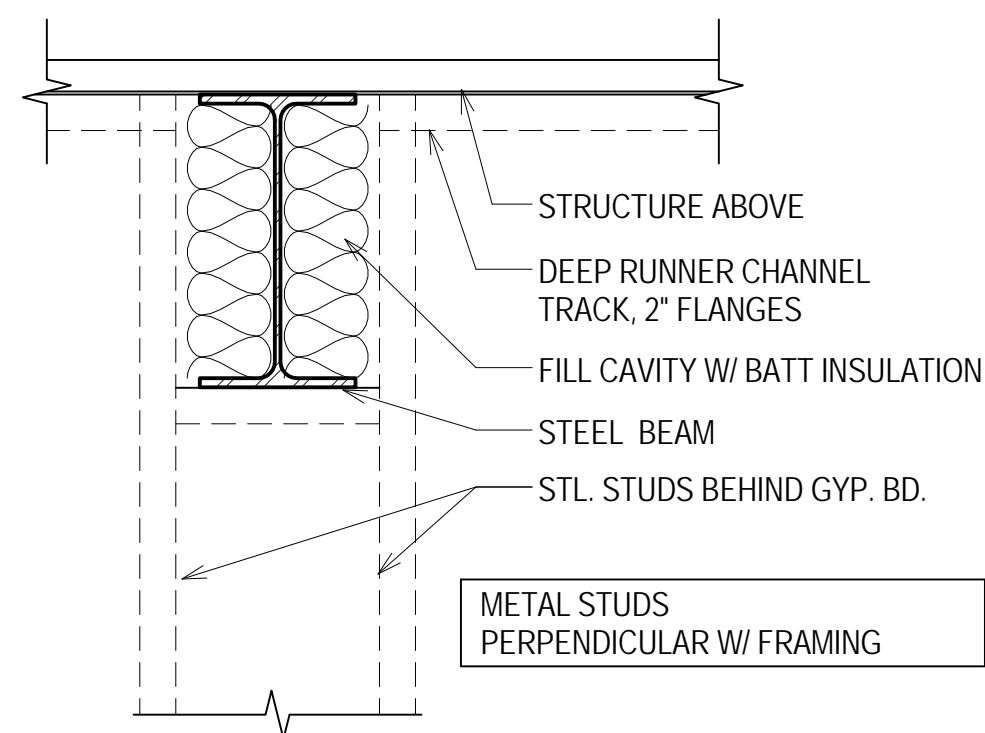
7  
A-011  
**PARTITION HEAD C**  
1 1/2" = 1'-0"



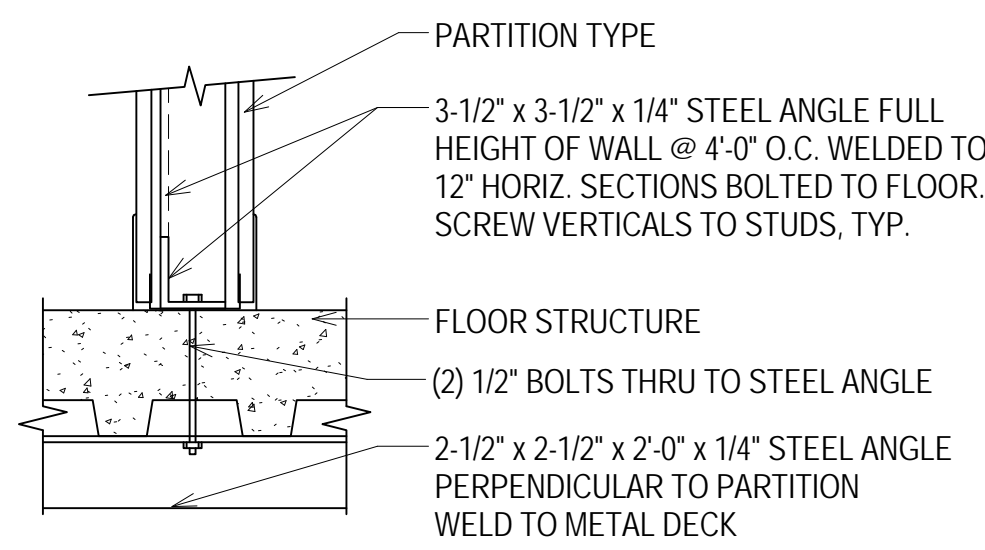
6  
A-011  
**PARTITION HEAD AT JOIST**  
1 1/2" = 1'-0"



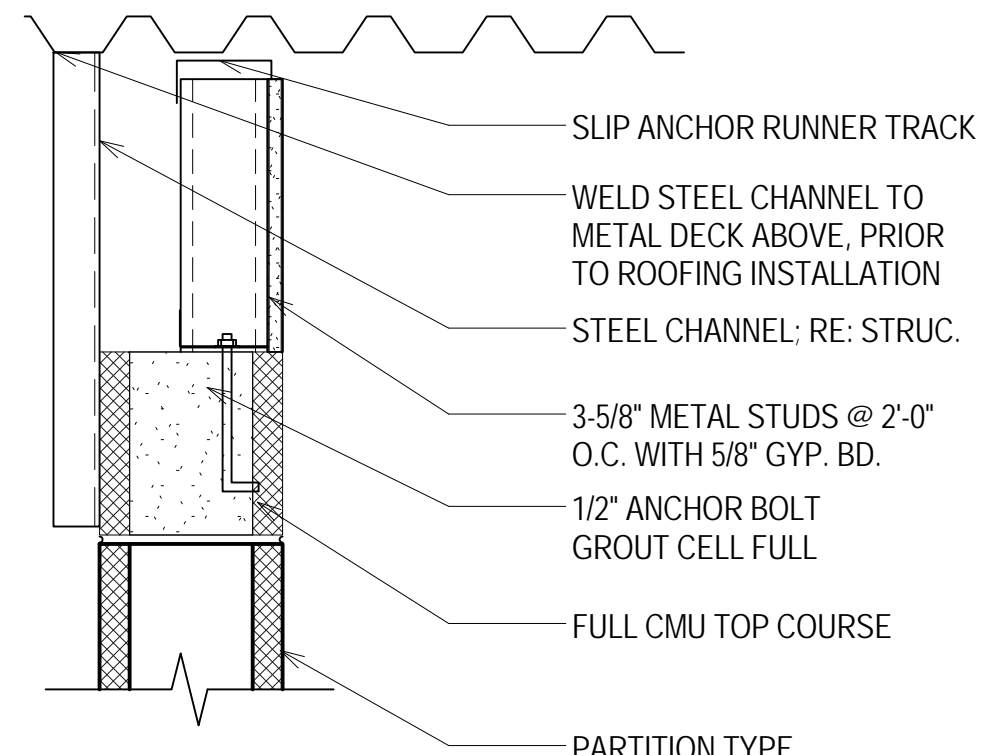
5  
A-011  
**PARTITION HEAD AT CEILING**  
1 1/2" = 1'-0"



4  
A-011  
**PARTITION HEAD AT BEAM**  
1 1/2" = 1'-0"



3  
A-011  
**HALF HEIGHT PARTITION BASE DETAIL**  
1 1/2" = 1'-0"



2  
A-011  
**CMU PARTITION HEAD**  
1 1/2" = 1'-0"

**PARTITION TYPE NOTES:**

1. DIMENSIONS SHOWN ON PLANS ARE FROM FINISH SURFACE TO FINISH SURFACE. MASONRY DIMENSIONS GIVEN ARE NOMINAL. "MO" (MASONRY OPENING) REFERS TO NOMINAL OPENINGS IN MASONRY UNIT CONSTRUCTION. "RO" (ROUGH OPENING) REFERS TO ACTUAL OPENINGS BETWEEN METAL STUDS IN METAL STUD CONSTRUCTION.

2. PARTITION TYPES ARE INDICATED ON THE FLOOR PLANS. NUMBERS REFER TO THE PARTITION TYPE. LETTERS INDICATE VARIATIONS TO THE BASE CONDITION DRAWN. UNMARKED PARTITIONS SHALL MATCH ADJACENT PARTITION TYPE.

3. ALL PARTITIONS SHALL EXTEND STRUCTURE TO STRUCTURE UNLESS OTHERWISE NOTED. REFER TO PARTITION HEAD DETAILS.

4. FIRE-RATED PARTITIONS AND SOUND ISOLATION PARTITIONS ARE INDICATED ON REFLECTED CEILING PLANS.

5. CONSTRUCTION OF FIRE-RATED PARTITIONS, INCLUDING TAPING AND FINISHING OF GYPSUM BOARD FOR FULL HEIGHT TO STRUCTURE ABOVE, SHALL BE IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS TO ACHIEVE THE RATING INDICATED.

6. SOUND ISOLATION PARTITIONS SHALL BE SEALED AIRTIGHT FOR FULL HEIGHT TO PREVENT PASSAGE OF AIRBORNE SOUND. TAPE AND FINISH ALL GYPSUM BOARD JOINTS AND FASTENERS. PROVIDE SEALANT AT PERIMETER AND AT ALL PENETRATIONS.

7. WHEREVER LENGTH OF MASONRY PARTITION EXCEEDS 8'-0" BETWEEN LATERAL SUPPORTS, INSTALL 3" x 3" x 0'-6" x 12 GAUGE FORMED STEEL ANGLES EACH SIDE AT 4'-0" O.C. MAX. ANCHOR EACH ANGLE TO STRUCTURE WITH TWO 1/8" X 15/16" DRIVE PINS. MASONRY SHALL STOP 1" FROM STRUCTURE, AND 1" SPACE SHALL BE FILLED WITH INCOMBUSTIBLE COMPRESSIBLE FILLER.

8. HOLLOW METAL FRAMES IN METAL STUD PARTITIONS SHALL HAVE 4 STUD ANCHORS PER JAMB MINIMUM FOR FRAME HEIGHT OF 7'-2" OR LESS, AND ONE ADDITIONAL ANCHOR PER JAMB FOR EACH ADDITIONAL 2'-0" OR FRACTION. HOLLOW METAL FRAMES IN MASONRY SHALL HAVE 3 MASONRY ANCHORS PER JAMB MINIMUM FOR FRAME HEIGHT OF 7'-4" OR LESS, AND ONE ADDITIONAL ANCHOR PER JAMB FOR EACH ADDITIONAL 2'-0" OR FRACTION. ALL HOLLOW METAL FRAMES SHALL HAVE ONE FLOOR CLIP PER JAMB, WITH TWO ANCHORS INTO FLOOR AT EACH FLOOR CLIP.

9. PROVIDE JOINT REINFORCEMENT IN ALL MASONRY PARTITIONS, CONTINUOUS HORIZONTALLY AND SPACED NOT OVER 16" ON CENTER VERTICALLY, BEGINNING WITH THE JOINT 8" ABOVE THE FLOOR AND IN THE FIRST AND SECOND JOINTS ABOVE AND BELOW OPENINGS EXTENDING NOT LESS THAN 24" BEYOND EACH SIDE OF THE OPENING.

10. PROVIDE FIRE-RETARDANT TREATED WOOD OR SHEET STEEL BLOCKING FOR PARTITION MOUNTED EQUIPMENT AND CASEWORK.

11. PARTITION TYPES DESCRIBE THE PRIMARY MEMBER AND SHEATHING. REFER TO FINISH SCHEDULE FOR ALL PARTITION FINISH DESIGNATIONS.

12. PROVIDE TYPE WR WATER RESISTANT GYPSUM BOARD IN ALL WET AREAS SUCH AS TOILET ROOMS, SHOWER ROOMS, KITCHENS AND AT EWC'S.

13. PROVIDE 5/8" CONCRETE BACKER BOARD AT ALL CERAMIC TILE FINISHES TO ALIGN WITH 5/8" TYPE WR GYPSUM BOARD ABOVE.

14. PROVIDE SLIP JOINT CONNECTIONS AT THE TOPS OF ALL PARTITIONS WHICH INTERSECT THE STRUCTURE ABOVE. PROVIDE FIRE SAFING AT ALL SLIP JOINT CONNECTIONS IN FIRE RATED PARTITIONS.

15. WHERE NOTED TO PROVIDE SOUND ISOLATION MATERIAL IN WALLS, PROVIDE A STRIP OF ISOLATION BLANKET ABOVE THE CONJOINING WALLS.

16. PROVIDE 16 GA. SHEET METAL BLOCKING WALL SHEATHING AT ALL WALL MOUNTED ITEMS AT STUD WALLS AND PARTITIONS. ITEMS SUCH AS SHOWER SEATS AND GRAB BARS ARE TO BE ABLE TO WITHSTAND A VERTICAL FORCE OF 250 LBS.

INTERIOR STUD SIZING GUIDE		
HEIGHT	3 5/8" STUD	6" STUD
12' WALL	362S125-30 @ 16"	600S125-30 @ 16"
16' WALL	362S162-43 @ 16"	600S125-30 @ 16"
20' WALL	362S162-68 @ 12"	600S125-33 @ 16"
24' WALL	NA	600S162-43 @ 16"
28' WALL	NA	600S162-54 @ 12"

NOTE: THESE STUD SIZES ARE FOR REFERENCE ONLY. PROVIDE SHOP DRAWINGS FOR PROPOSED WALLS REQUIRING ADDITIONAL STUD ENGINEERING DUE TO STUD HEIGHT. INCLUDE STUD SPACING, GAUGE AND HEIGHT INFORMATION. PROVIDE MANUFACTURERS INFORMATION FOR SELECTED PRODUCTS.

PARTITION TYPE SUFFIX:	
A.	1 1/2" SOUND ATTENUATION BLANKET FLOOR TO CEILING. WHERE PARTITION MEETS CEILING SYSTEM PROVIDE 1 1/2" SOUND ATTENUATION BLANKET ABOVE CEILING 2'-0" EACH SIDE OF PARTITION. SEE ACOUSTICAL PARTITION HEAD.
B.	PROVIDE 3 1/2" BATT INSULATION FLOOR TO CEILING/STRUCTURE.
C.	PROVIDE 20 GA. METAL STUDS @ 16" O.C.
D.	PROVIDE 5/8" CEMENT BACKER BOARD AT CERAMIC TILE WITH 5/8" WATER RESISTANT GYPSUM BOARD ABOVE.
E.	PROVIDE 6" 25 GA. METAL STUDS AT 16" O.C.
F.	PROVIDE 6" CONCRETE MASONRY UNITS.

Revisions:

Date

Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501

PROJECT LEADER/ARCHITECT:  
  
2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
317.800.6388 WWW.GUIDONDESIGN.COM  
SUSTAINABLE ARCHITECTURE + ENGINEERING

ADDENDUM #1 FOR CONSTRUCTION

Drawing Title  
Partition Types and Details

Approved for Design Concept:  
John Bartman  
John.Bartman@va.gov  
970-263-5016

Project Title  
PARKING GARAGE

Location  
Grand Junction VAMC

Date  
03/10/2014

Checked By:  
UJ

Drawn By:  
ARO

Project Number  
12.1042

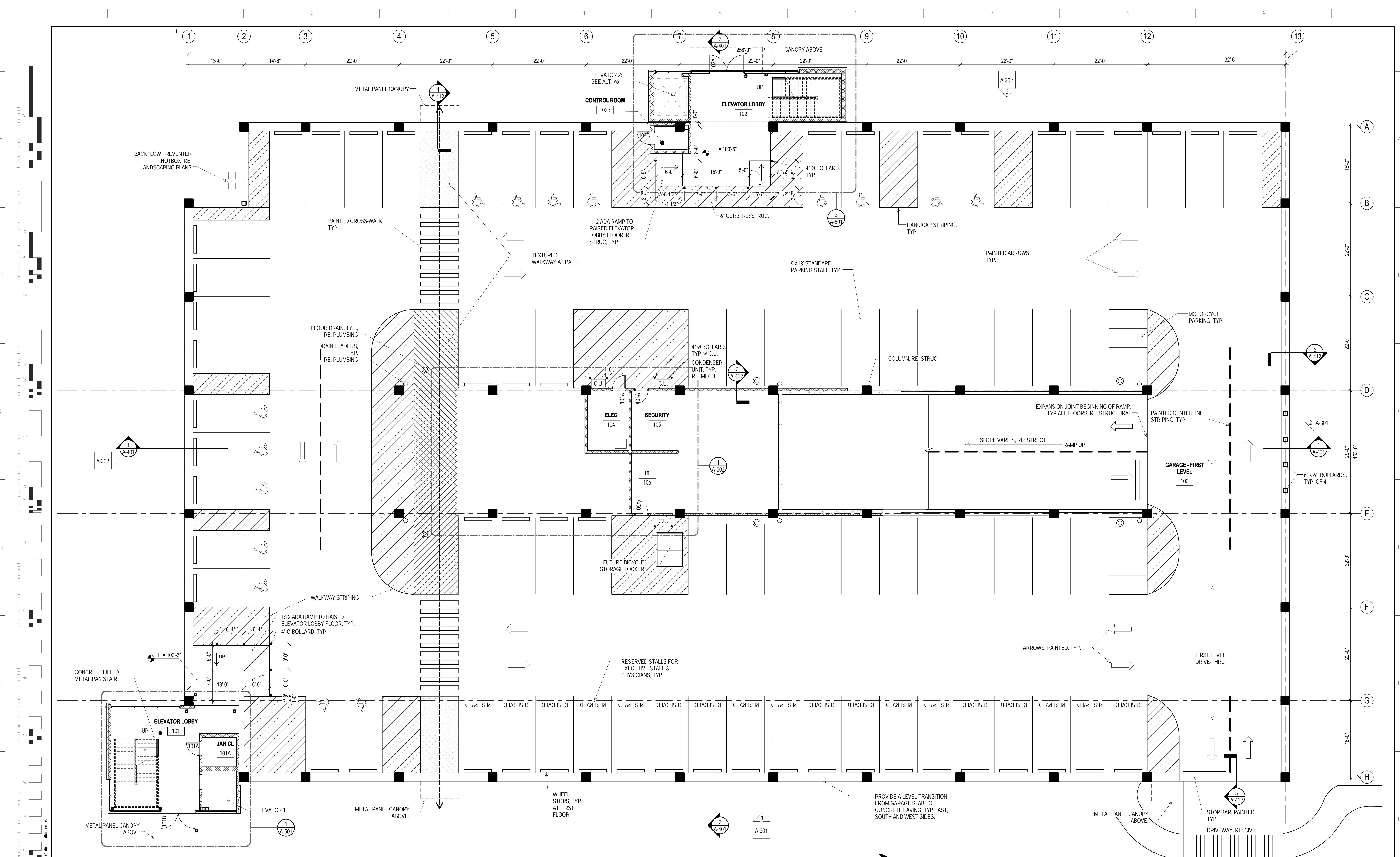
Building Number  
Bldg - 39

Drawing Number  
A-011

OFFICE OF FACILITIES MANAGEMENT

VA Project Number  
575-206

Department of Veterans Affairs



one eighth inch = one foot  
one quarter inch = one foot  
three eighths inch = one foot  
one half inch = one foot  
one inch = one foot  
three quarters inch = one foot  
one and one half inches = one foot  
three inches = one foot

1  
A-101

**FIRST FLOOR**  
1/8" = 1'-0"

Revisions:

Date

Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501

PROJECT LEADER/ARCHITECT:  
**GUIDON DESIGN**  
2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
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SUSTAINABLE ARCHITECTURE + ENGINEERING

ADDENDUM #1 FOR CONSTRUCTION

Drawing Title  
**FIRST FLOOR PLAN**

Approved for Design Concept:  
John Bartman  
John.Bartman@va.gov  
970-263-5016

Project Title  
PARKING GARAGE

Location  
Grand Junction VAMC

Date  
03/10/2014

Checked By:  
UJ

Drawn By:  
ARO

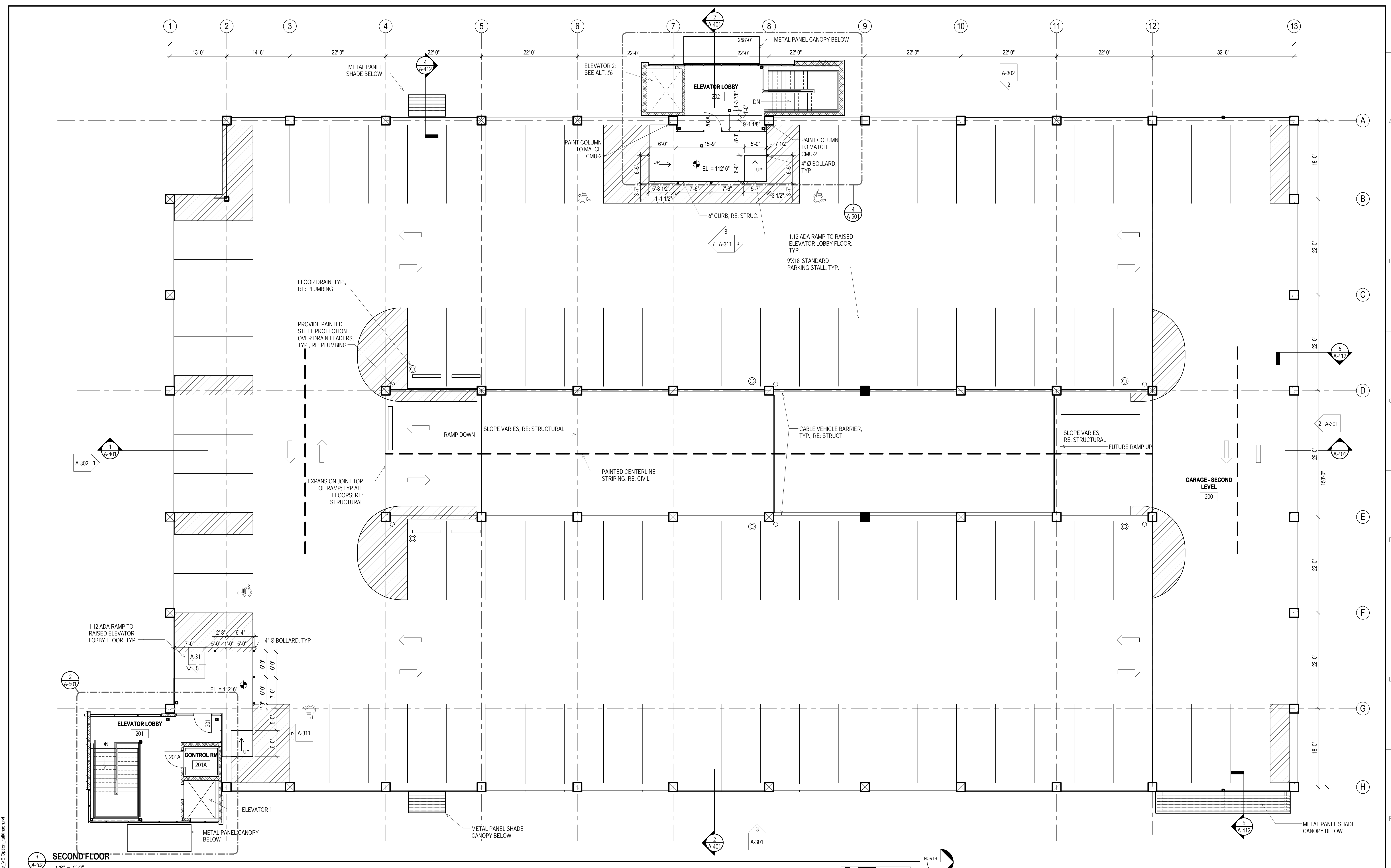
Project Number  
12.1042  
Building Number  
Bldg - 39

Drawing Number  
**A-101**

VA Project Number  
575-206

1 2 3 4 5 6 7 8 9

three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot  
one sixteenth inch = one foot



Revisions:

Date



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APOGEE  
Consulting Group, PA



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DESIGN

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SUSTAINABLE ARCHITECTURE + ENGINEERING

ADDENDUM #1 FOR CONSTRUCTION

Drawing Title  
SECOND FLOOR  
PLAN

Approved for Design Concept:  
John Bartman  
John.Bartman@va.gov  
970-263-5016

Project Title  
PARKING GARAGE

Location  
Grand Junction VAMC

Date  
03/10/2014

Checked By:  
UJ

Drawn By:  
ARO

Project Number  
12.1042  
Building Number  
Bldg-39

Drawing Number  
A-102

OFFICE OF  
FACILITIES  
MANAGEMENT

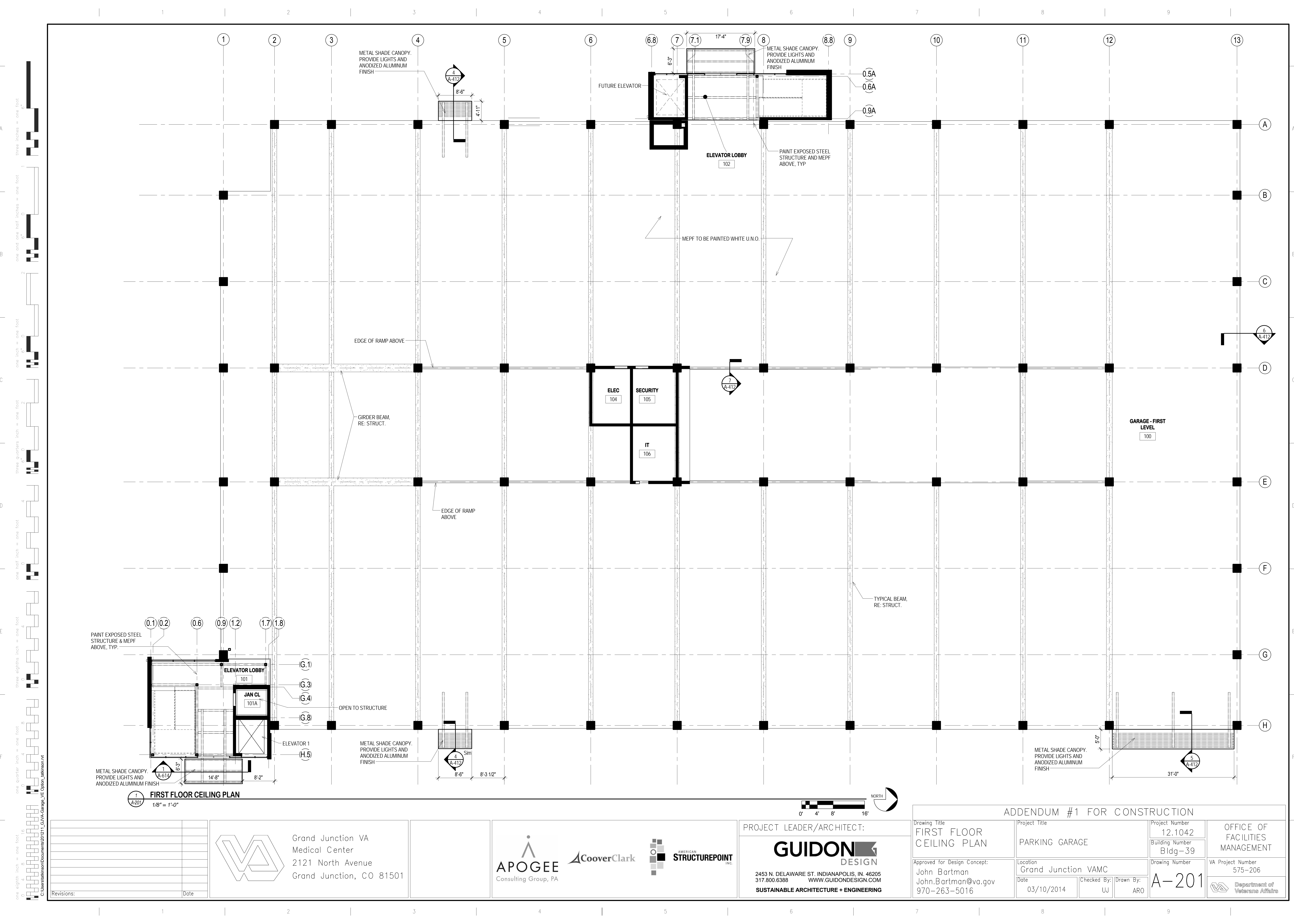
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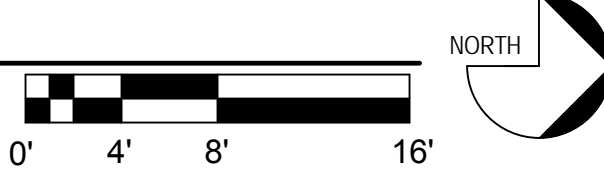
Department of  
Veterans Affairs

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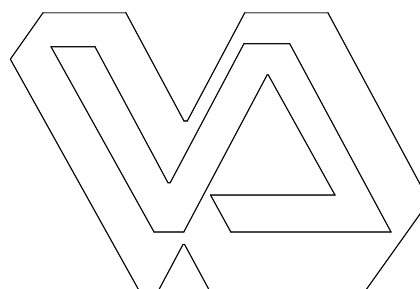


**FIRST FLOOR CEILING PLAN**  
1/8" = 1'-0"



**ADDENDUM #1 FOR CONSTRUCTION**

Revisions:	Date



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PROJECT LEADER/ARCHITECT:

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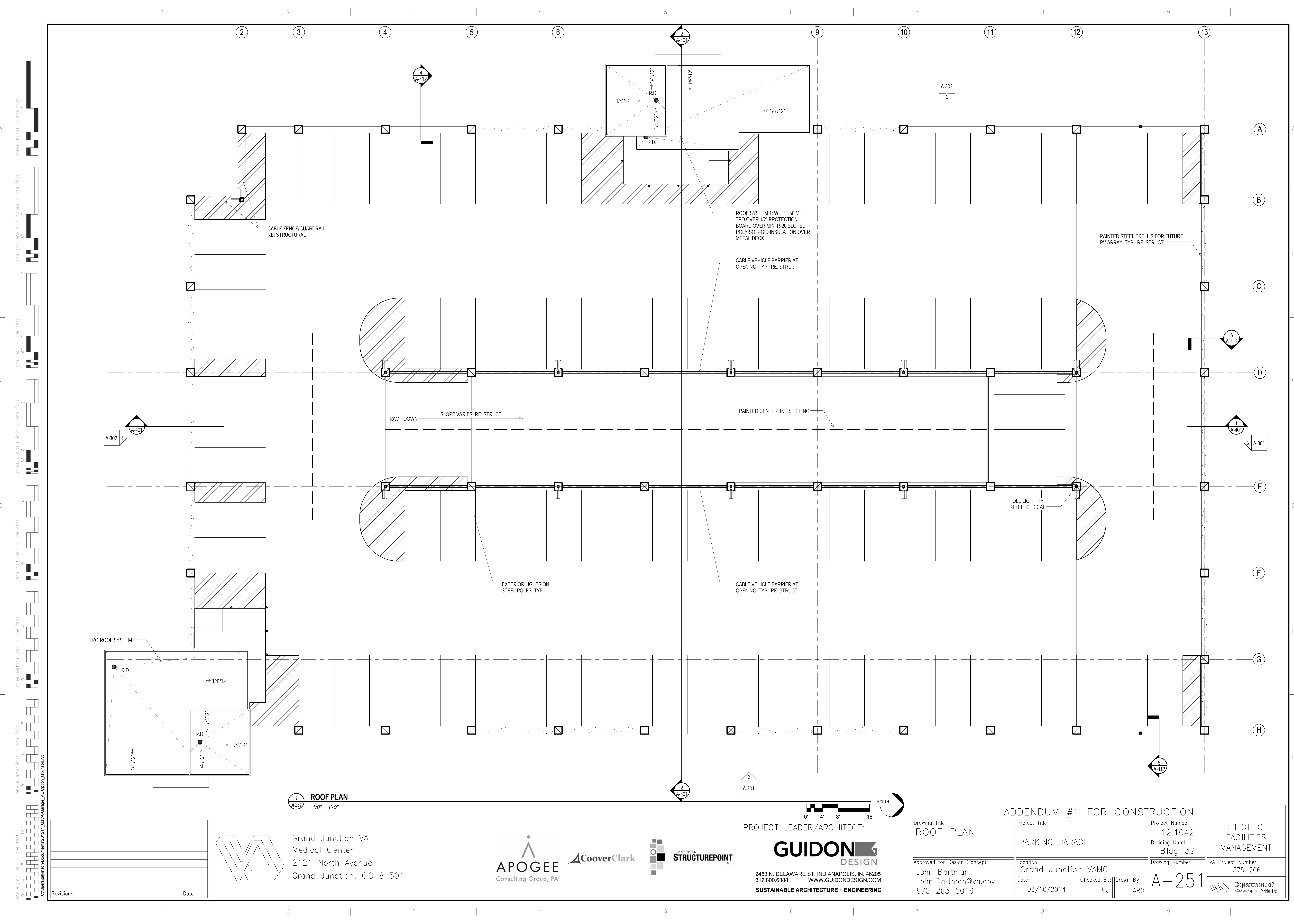
Drawing Title  
**FIRST FLOOR  
CEILING PLAN**  
Approved for Design Concept:  
John Bartman  
John.Bartman@va.gov  
970-263-5016

Project Title  
**PARKING GARAGE**  
Location  
Grand Junction VAMC  
Date  
03/10/2014  
Checked By:  
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ARO

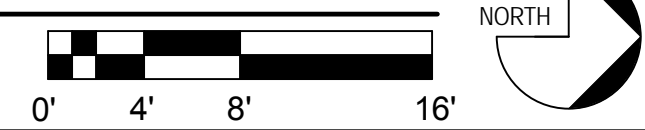
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12.1042  
Building Number  
Bldg-39  
Drawing Number  
**A-201**

OFFICE OF  
FACILITIES  
MANAGEMENT  
VA Project Number  
575-206  
Department of  
Veterans Affairs



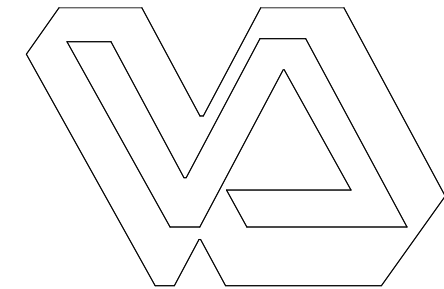


1 ROOF PLAN  
A-251  
1/8" = 1'-0"



ADDENDUM #1 FOR CONSTRUCTION

Revisions:	Date



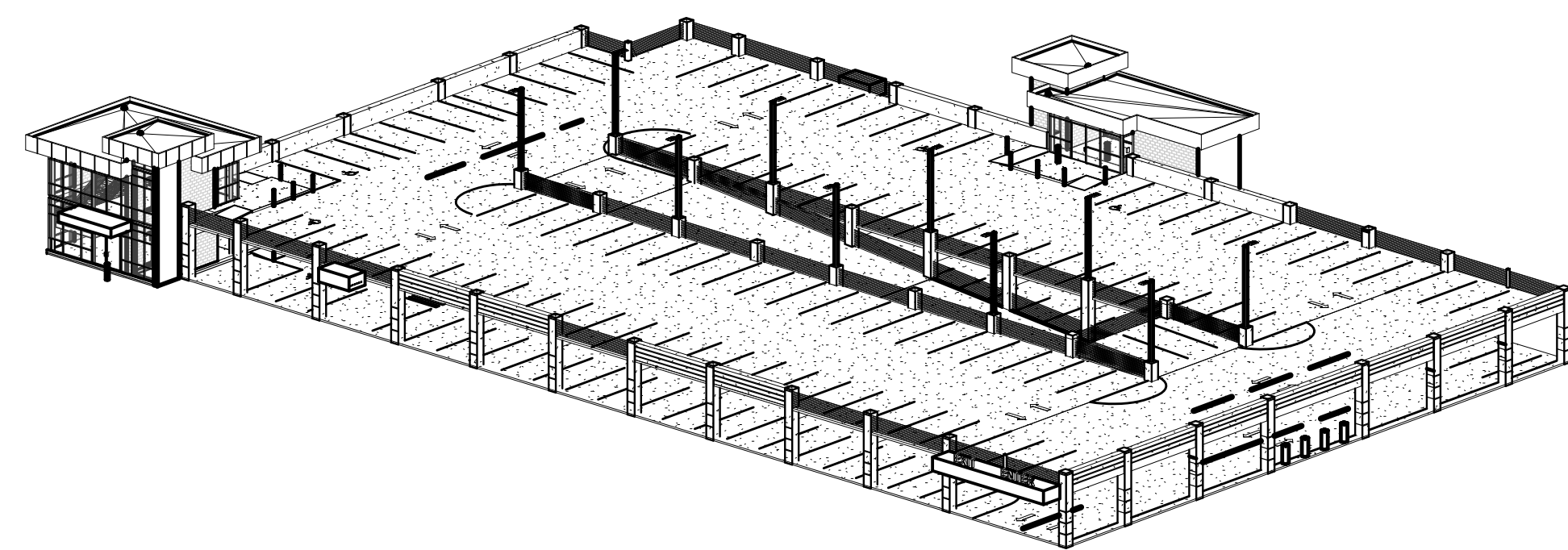
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Grand Junction, CO 81501



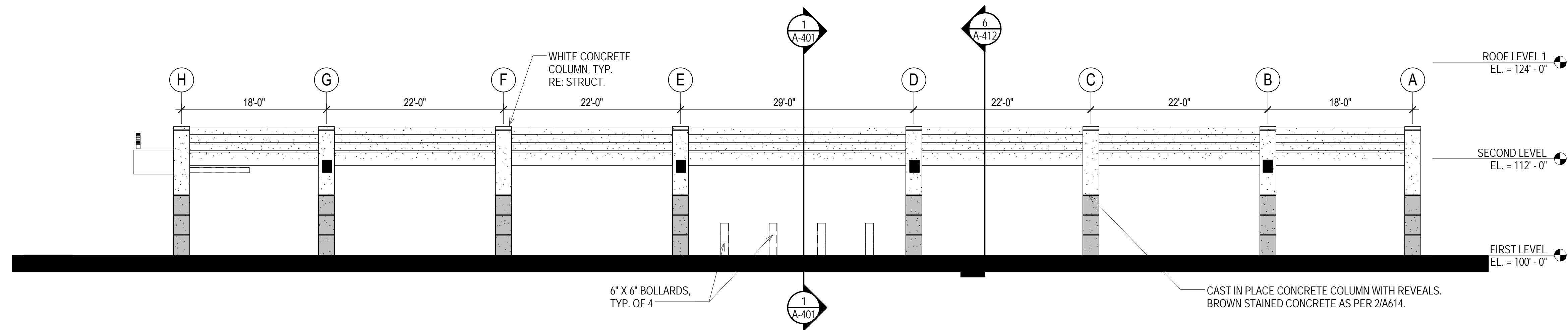
PROJECT LEADER/ARCHITECT:  
**GUIDON DESIGN**  
2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
317.800.6388 WWW.GUIDONDESIGN.COM  
SUSTAINABLE ARCHITECTURE + ENGINEERING

Drawing Title ROOF PLAN	Project Title PARKING GARAGE	Project Number 12.1042	OFFICE OF FACILITIES MANAGEMENT
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VAMC	Building Number Bldg-39	VA Project Number 575-206
Date 03/10/2014	Checked By: UJ	Drawn By: ARO	Drawing Number <b>A-251</b>
			Department of Veterans Affairs

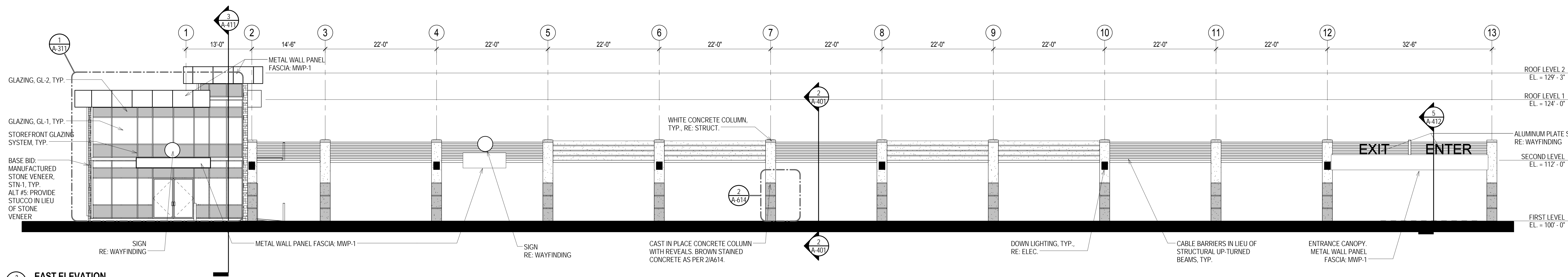




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A-301  
NORTHEAST VIEW

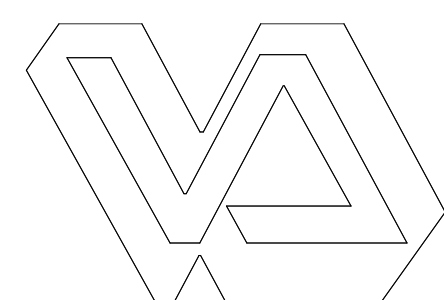


2  
A-301  
NORTH ELEVATION  
1/8" = 1'-0"



3  
A-301  
EAST ELEVATION  
1/8" = 1'-0"

Revisions:	Date



Grand Junction VA  
Medical Center  
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PROJECT LEADER/ARCHITECT:

**GUIDON**  
DESIGN

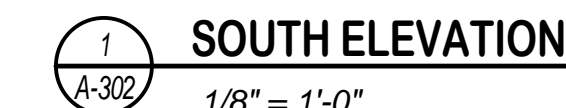
2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
317.800.6388 WWW.GUIDONDESIGN.COM  
SUSTAINABLE ARCHITECTURE + ENGINEERING

ADDENDUM #1 FOR CONSTRUCTION

Drawing Title <b>BUILDING ELEVATIONS</b>	Project Title PARKING GARAGE	Project Number 12.1042	OFFICE OF FACILITIES MANAGEMENT
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VAMC	Building Number Bldg-39	VA Project Number 575-206
Date 03/10/2014	Checked By: UJ	Drawn By: ARO	Drawing Number <b>A-301</b>
			Department of Veterans Affairs



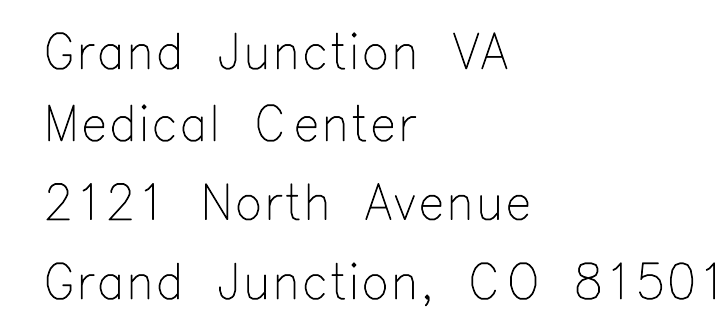
### SOUTHWEST VIEW



### SOUTH ELEVATION



**WEST ELEVATION**



**GUIDON**   
DESIGN

Drawing Title	BUILDING ELEVATIONS
---------------	------------------------

Approved for Design Concept:  
John Bartman  
John.Bartman@va.gov  
970-263-5016

Project Title
PARKING GARAGE

Location		Grand Junction VAMC
Date	03/10/2014	Checked By: UJ

Project Number	12.1042
Building Number	Bldg-39

Drawing Number

OFFICE OF  
FACILITIES  
MANAGEMENT

Project Number  
575-206

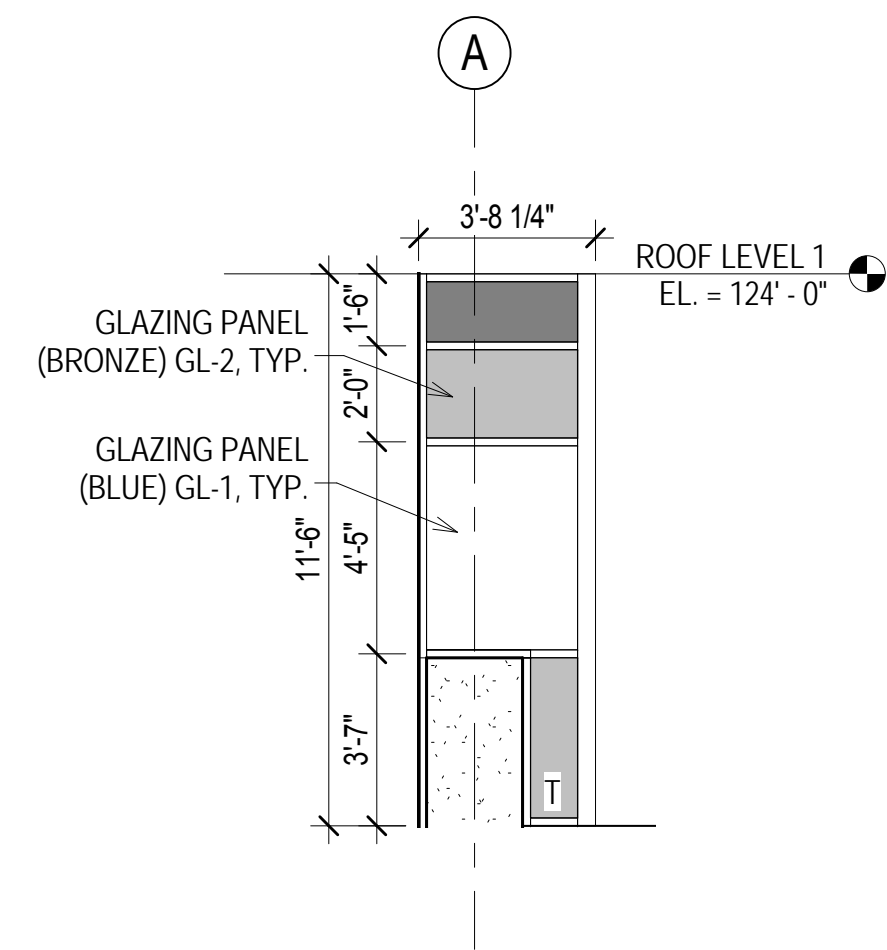


GLAZING TYPE LEDGEND

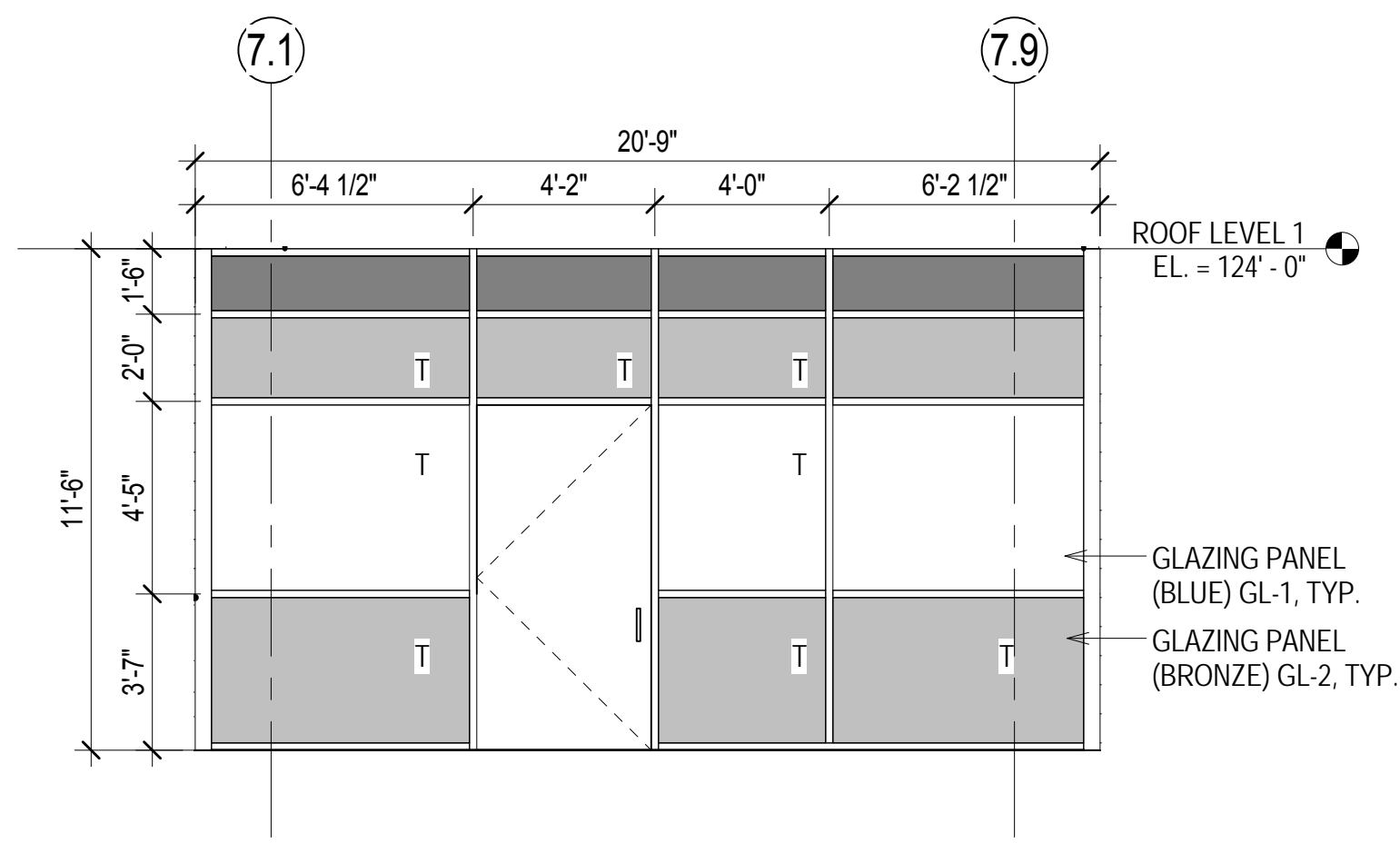
- GL-1 - GLAZING PANEL (BLUE)
- GL-2 - GLAZING PANEL (BRONZE)
- INFILL ALUMINUM PANEL

NOTES:

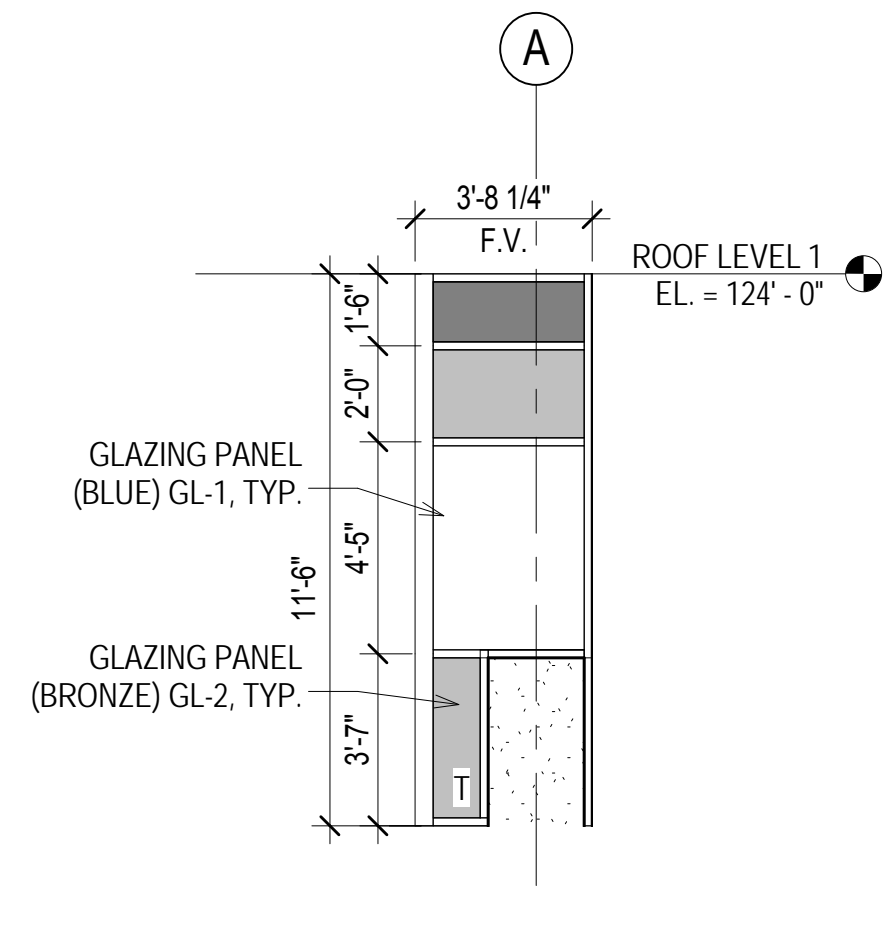
1. "T" SYMBOL INDICATES TEMPERED GLASS.  
PROVIDE WHERE REQUIRED PER CODE.



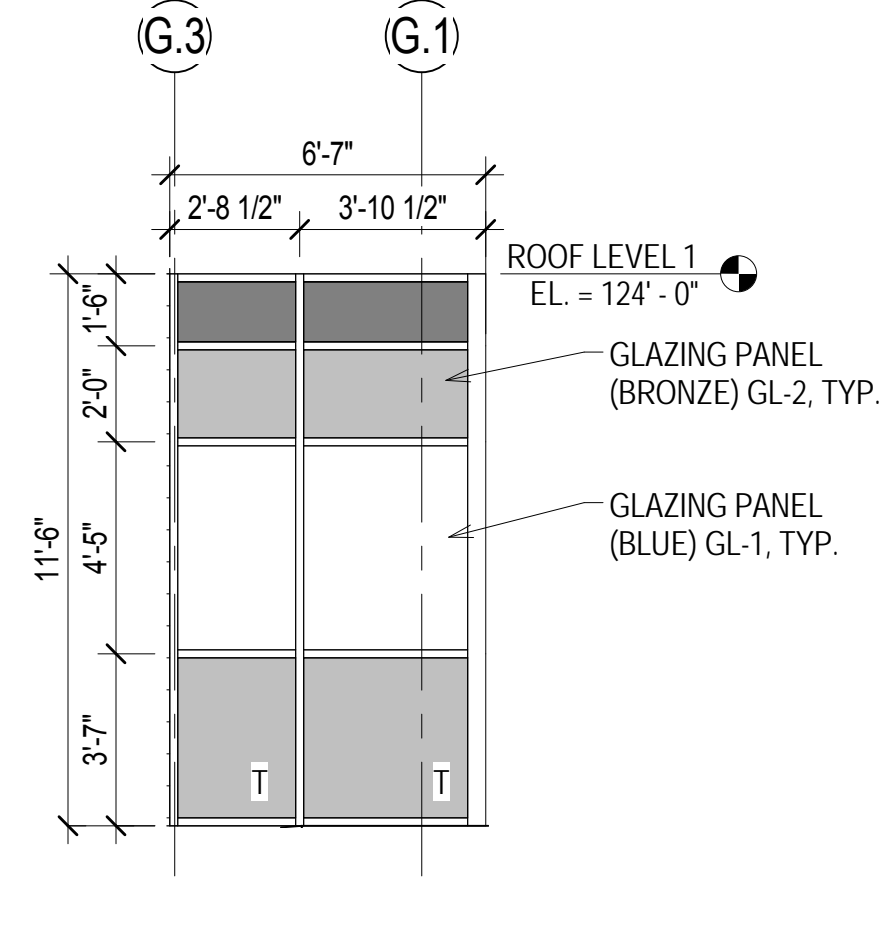
9 SOUTH ELEV. OF 2ND FLOOR WEST TOWER  
1/4" = 1'-0"



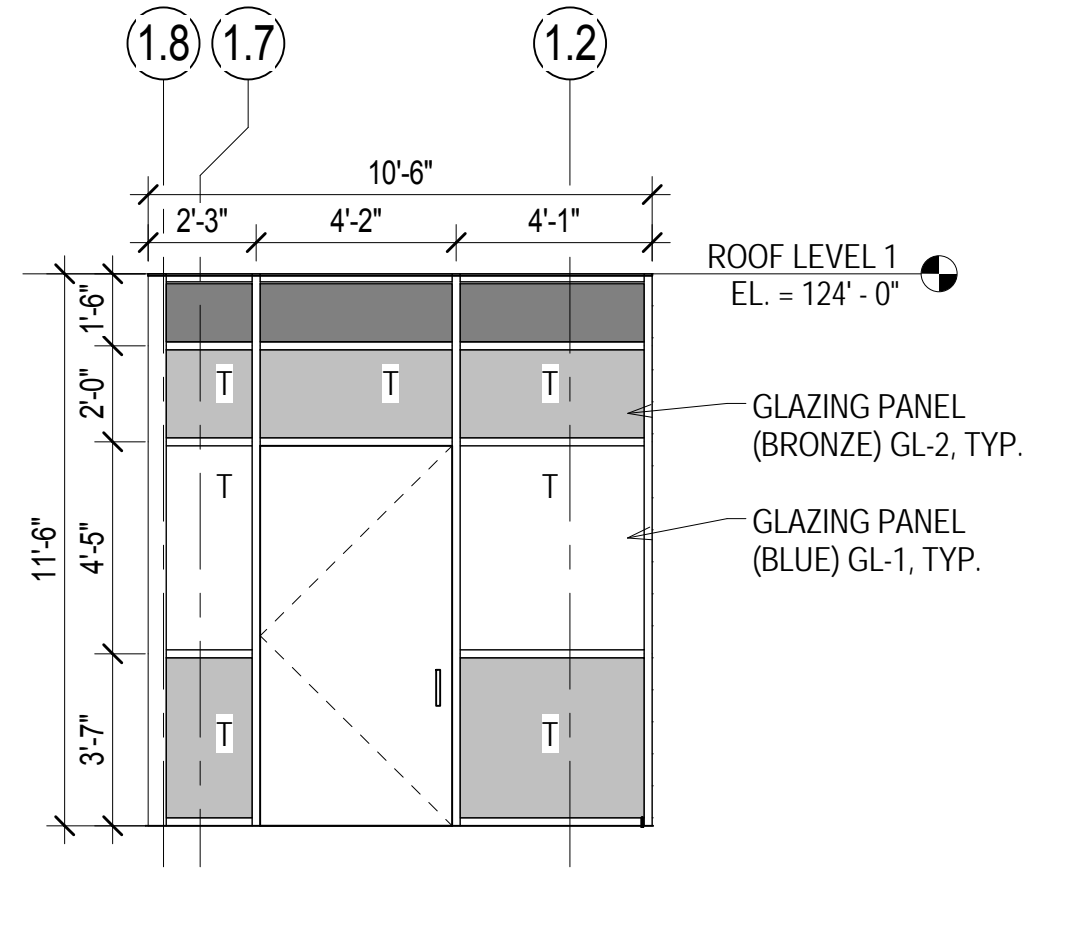
8 EAST ELEVATION OF 2ND FLOOR WEST TOWER  
1/4" = 1'-0"



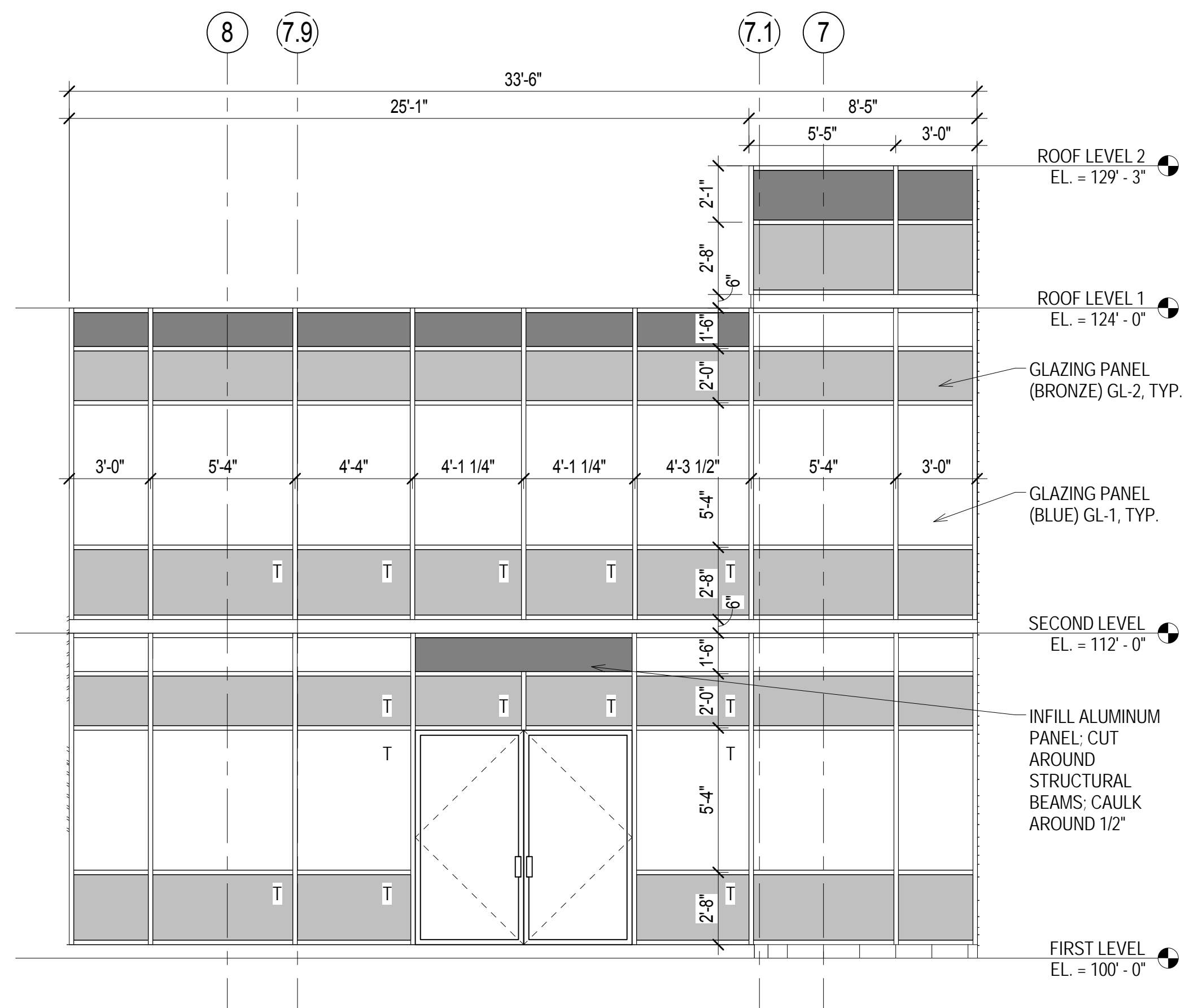
7 NORTH ELEVATION OF 2ND FLOOR WEST TOWER  
1/4" = 1'-0"



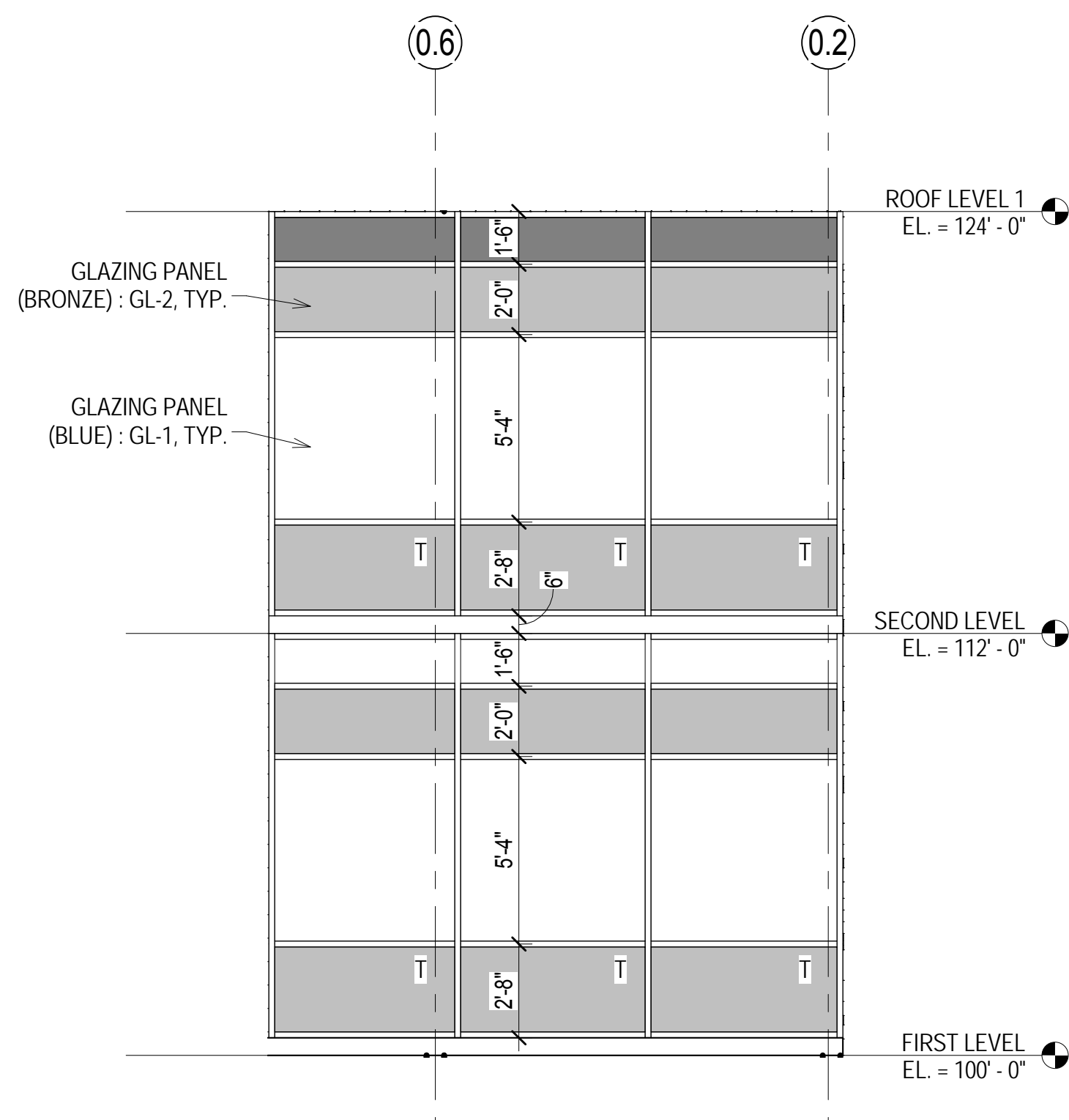
6 SOUTH ELEV. OF 2ND FL. S-E TOWER  
1/4" = 1'-0"



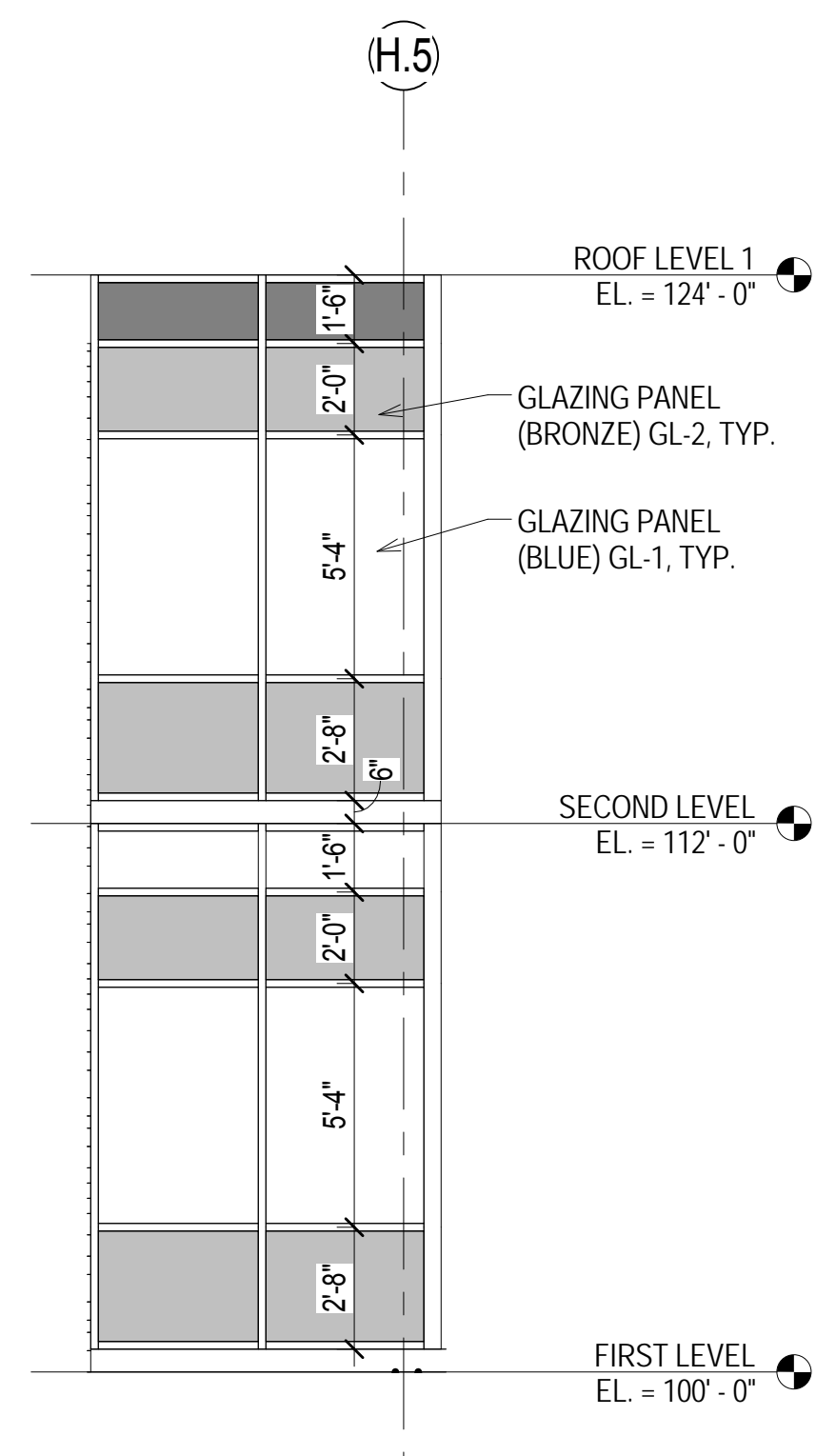
5 WEST ELEVATION OF 2ND FL. S-E TOWER  
1/4" = 1'-0"



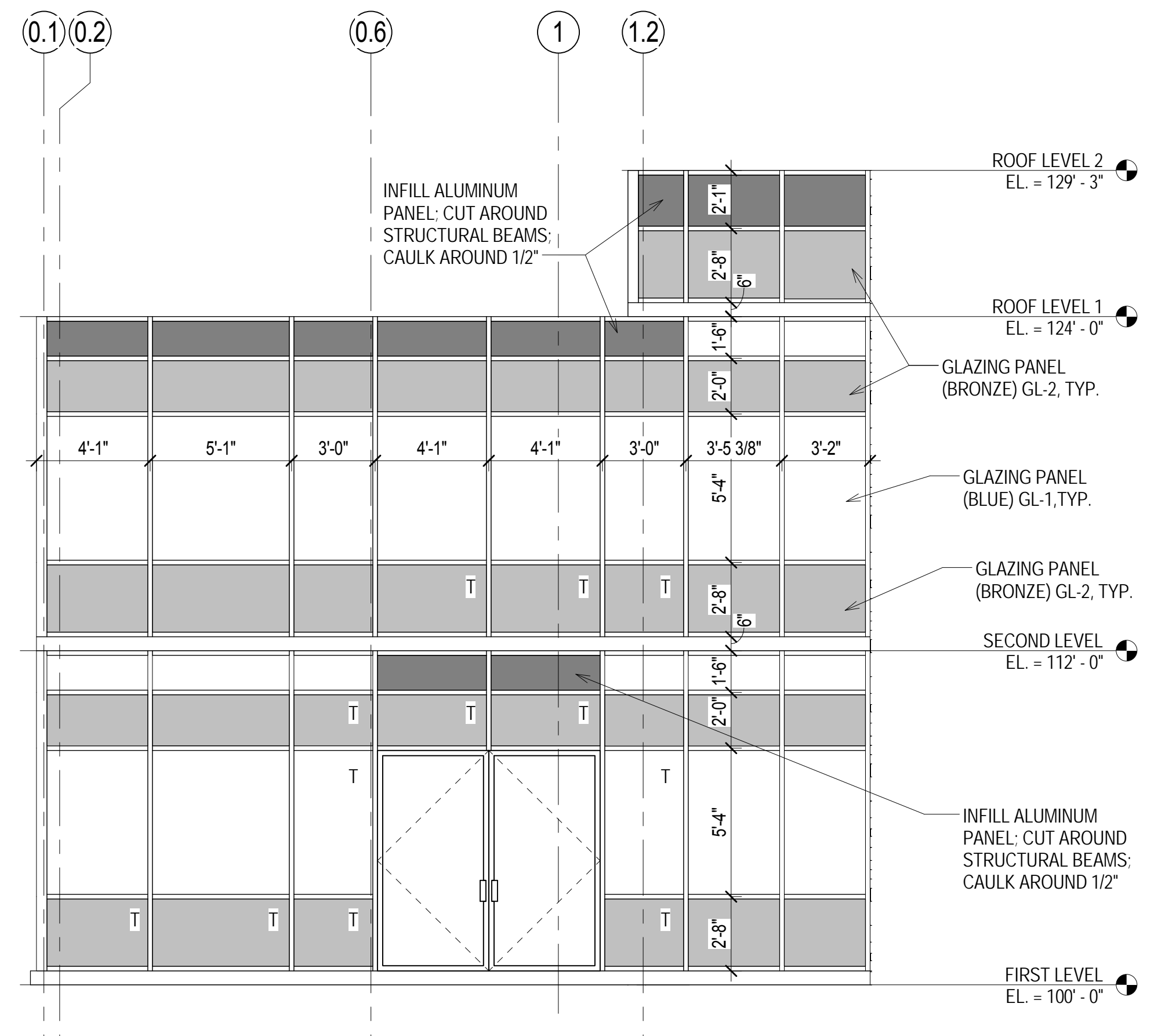
4 WEST ELEVATION OF WEST STAIR TOWER  
1/4" = 1'-0"



3 STOREFRONT WEST ELEVATION OF SOUTH EAST STAIR TOWER  
1/4" = 1'-0"



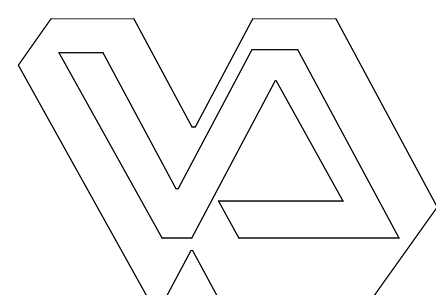
2 STOREFRONT SOUTH ELEVATION OF SOUTH EAST TOWER  
1/4" = 1'-0"



1 STOREFRONT ELEVATION OF SOUTH EAST STAIR TOWER  
1/4" = 1'-0"

ADDENDUM #1 FOR CONSTRUCTION

Drawing Title <b>ENLARGED STOREFRONT ELEVATIONS</b>	Project Title <b>PARKING GARAGE</b>	Project Number <b>12.1042</b>	OFFICE OF FACILITIES MANAGEMENT
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VAMC	Building Number Bldg-39	VA Project Number 575-206
Date 03/10/2014	Checked By: UJ	Drawn By: ARO	Drawing Number <b>A-311</b>



Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501



CooverClark



PROJECT LEADER/ARCHITECT:

**GUIDON DESIGN**

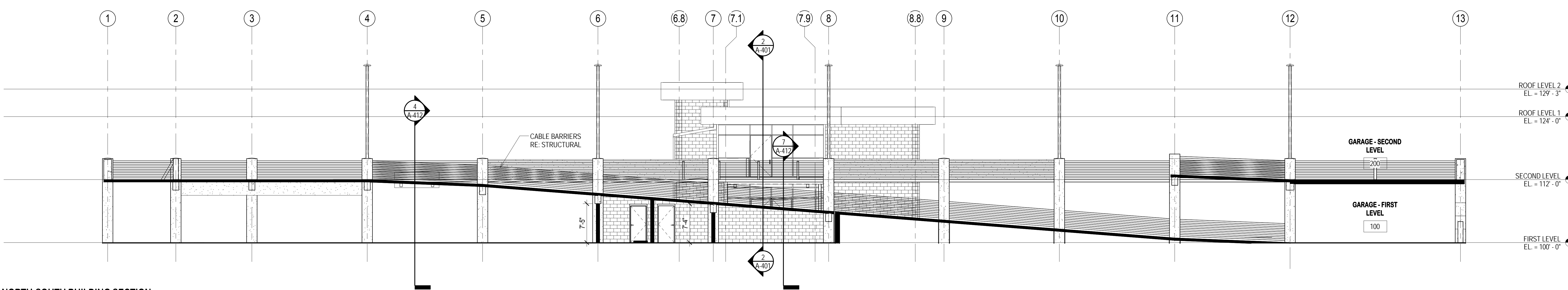
2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
317.800.6388 WWW.GUIDONDESIGN.COM  
SUSTAINABLE ARCHITECTURE + ENGINEERING

Revisions: \_\_\_\_\_ Date \_\_\_\_\_

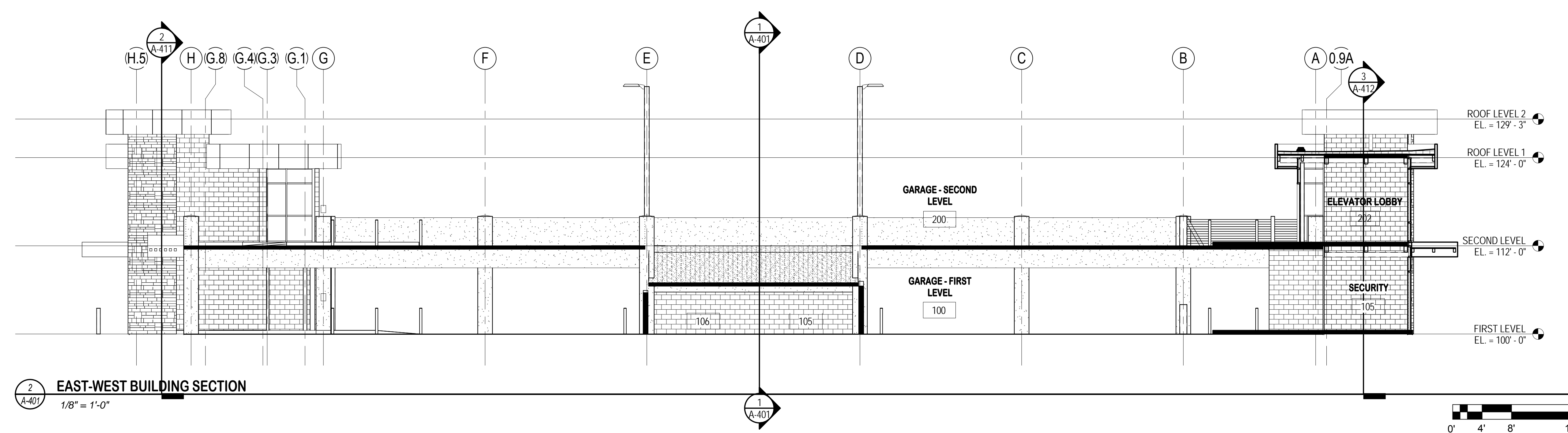


three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot

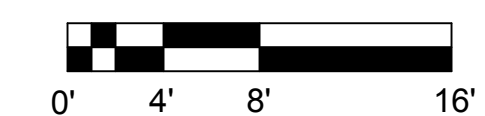
C:\Users\staden\Documents\201211\_GJVA-Garage\_VE-Option\_1.dwg



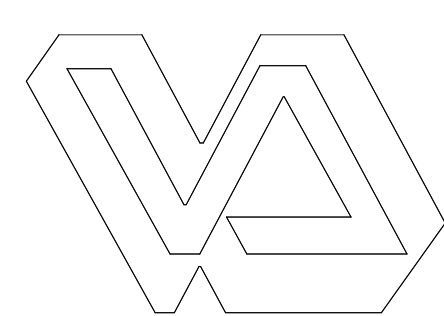
1 NORTH-SOUTH BUILDING SECTION  
1/8" = 1'-0"



2 EAST-WEST BUILDING SECTION  
1/8" = 1'-0"

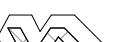


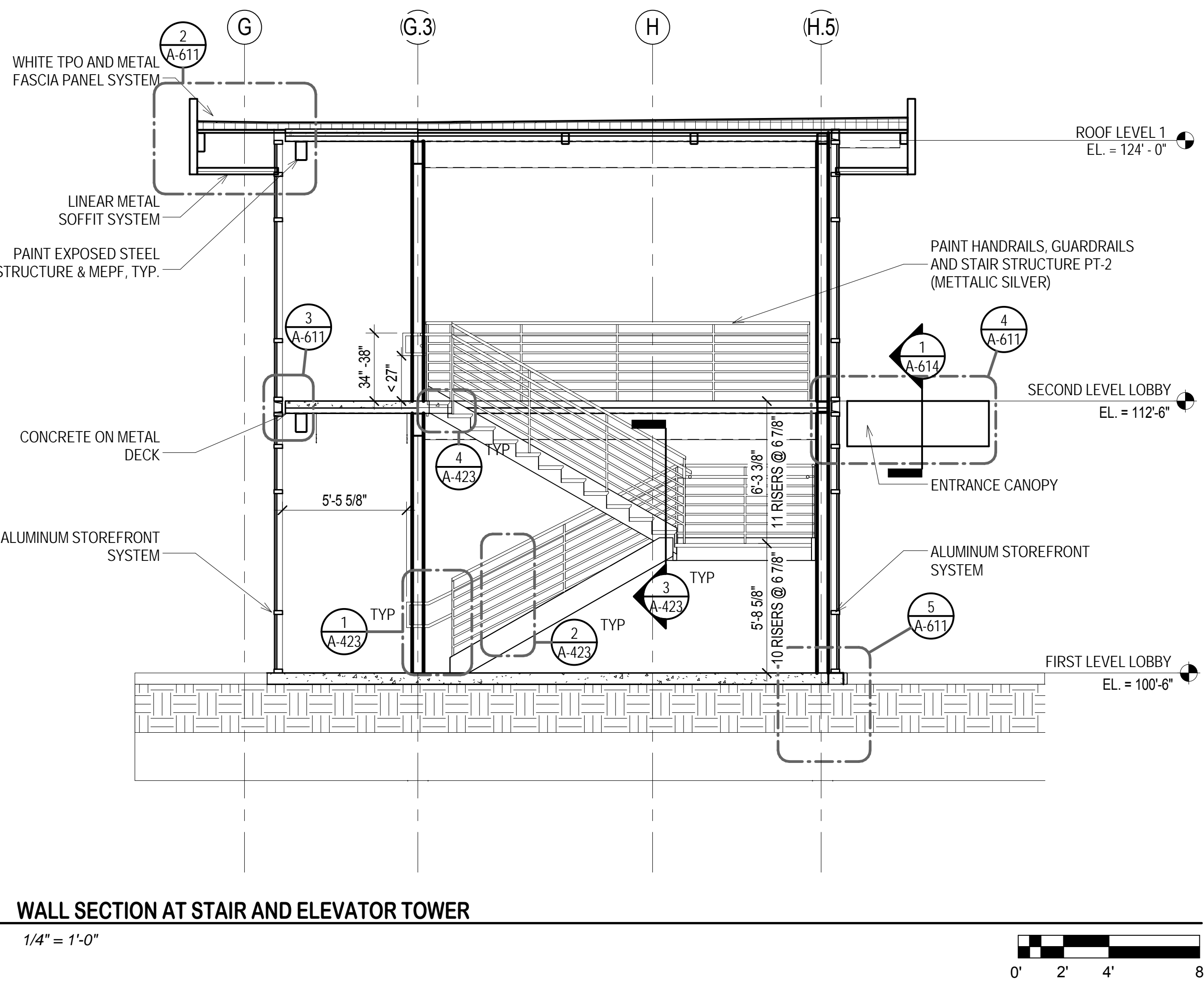
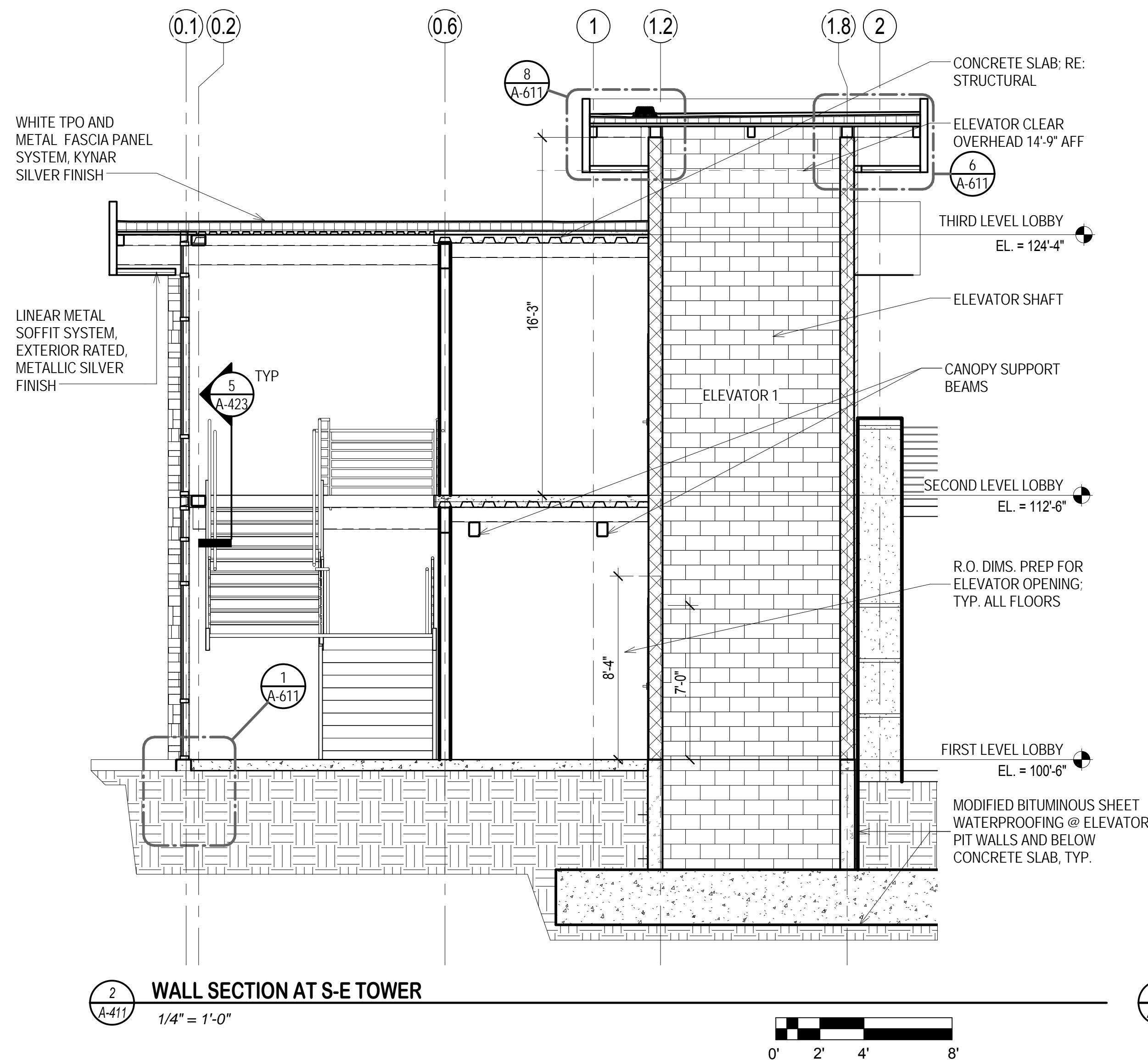
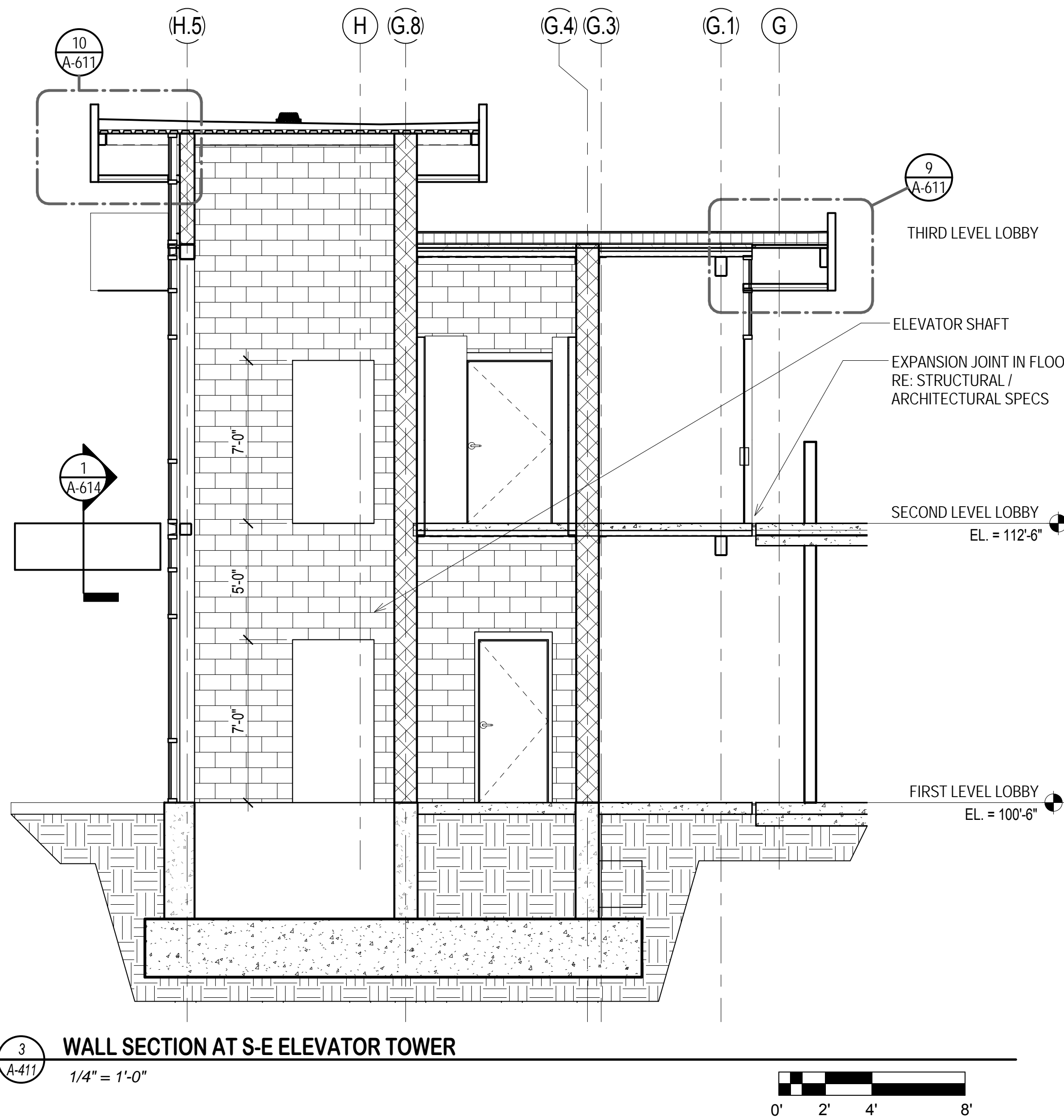
Revisions:	Date






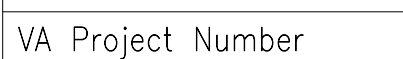
 Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501

PROJECT LEADER/ARCHITECT:  
**GUIDON DESIGN**  
2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
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ADDENDUM #1 FOR CONSTRUCTION					
Drawing Title BUILDING SECTIONS	Project Title PARKING GARAGE		Project Number 12.1042		OFFICE OF FACILITIES MANAGEMENT
			Building Number Bldg-39		
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VAMC		Drawing Number		VA Project Number 575-206
			A-401		 Department of Veterans Affairs
	Date 03/10/2014	Checked By: UJ			



		<div><div>Grand Junction VA Medical Center 2121 North Avenue Grand Junction, CO 81501</div></div>	<div><div></div></div>	<div>PROJECT LEADER/ARCHITECT: <div><div>2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205 317.800.6388 WWW.GUIDONDESIGN.COM SUSTAINABLE ARCHITECTURE + ENGINEERING</div></div></div>	ADDENDUM #1 FOR CONSTRUCTION					
					Drawing Title WALL SECTIONS	Project Title PARKING GARAGE		Project Number 12.1042 Building Number Bldg-39	OFFICE OF FACILITIES MANAGEMENT	
					Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VAMC		Drawing Number A-411	VA Project Number 575-206	
						Date 03/10/2014	Checked By: UJ	Drawn By: ARO		
Revisions:		Date								





A

B

C

D

E

F

A

B

C

D

E

F

three inches = one foot

one and one half inches = one foot

one inch = one foot

three quarters inch = one foot

one half inch = one foot

one quarter inch = one foot

three eighths inch = one foot

one eighth inch = one foot

one eighth inch = one foot

2

3

4

5

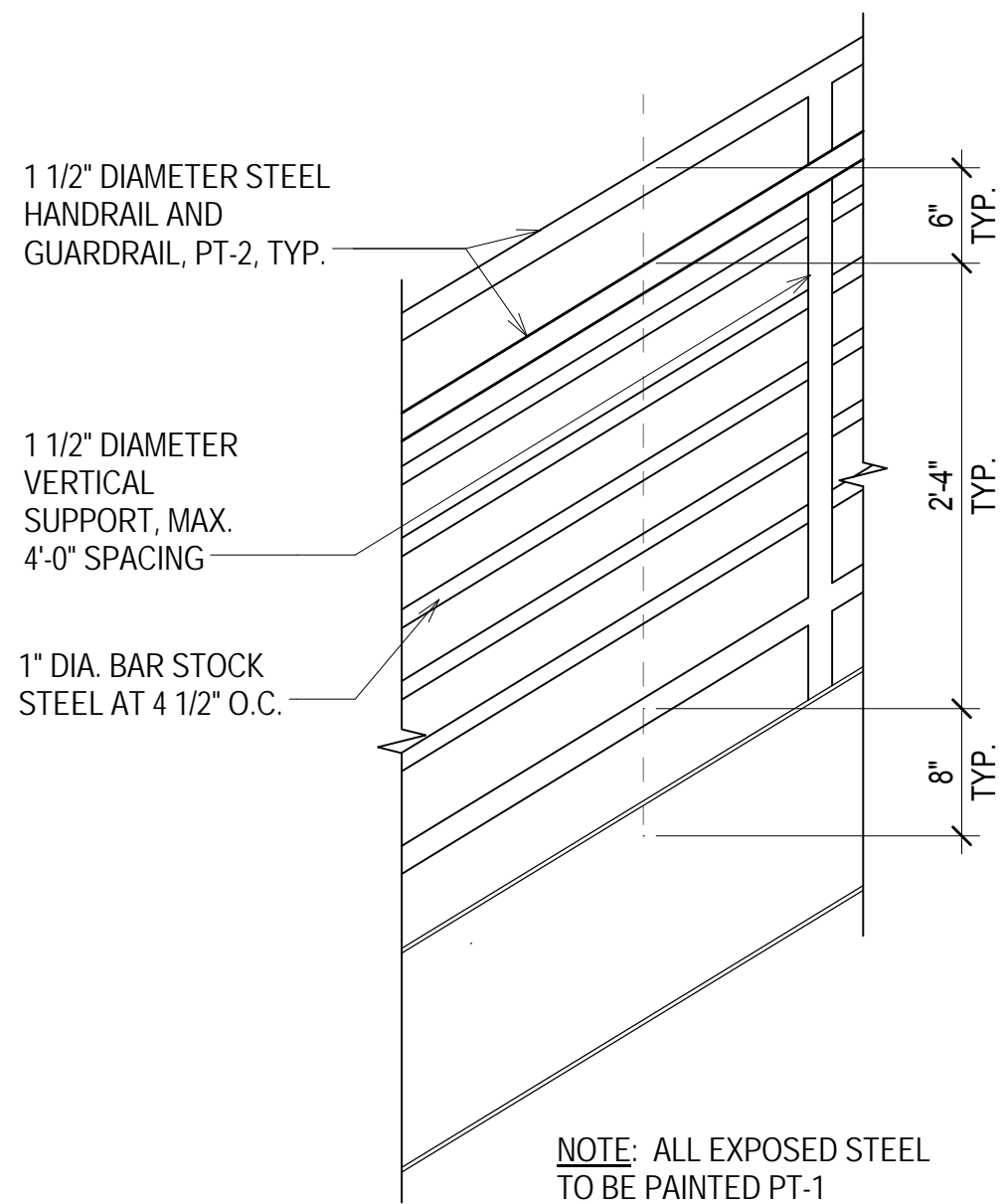
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7

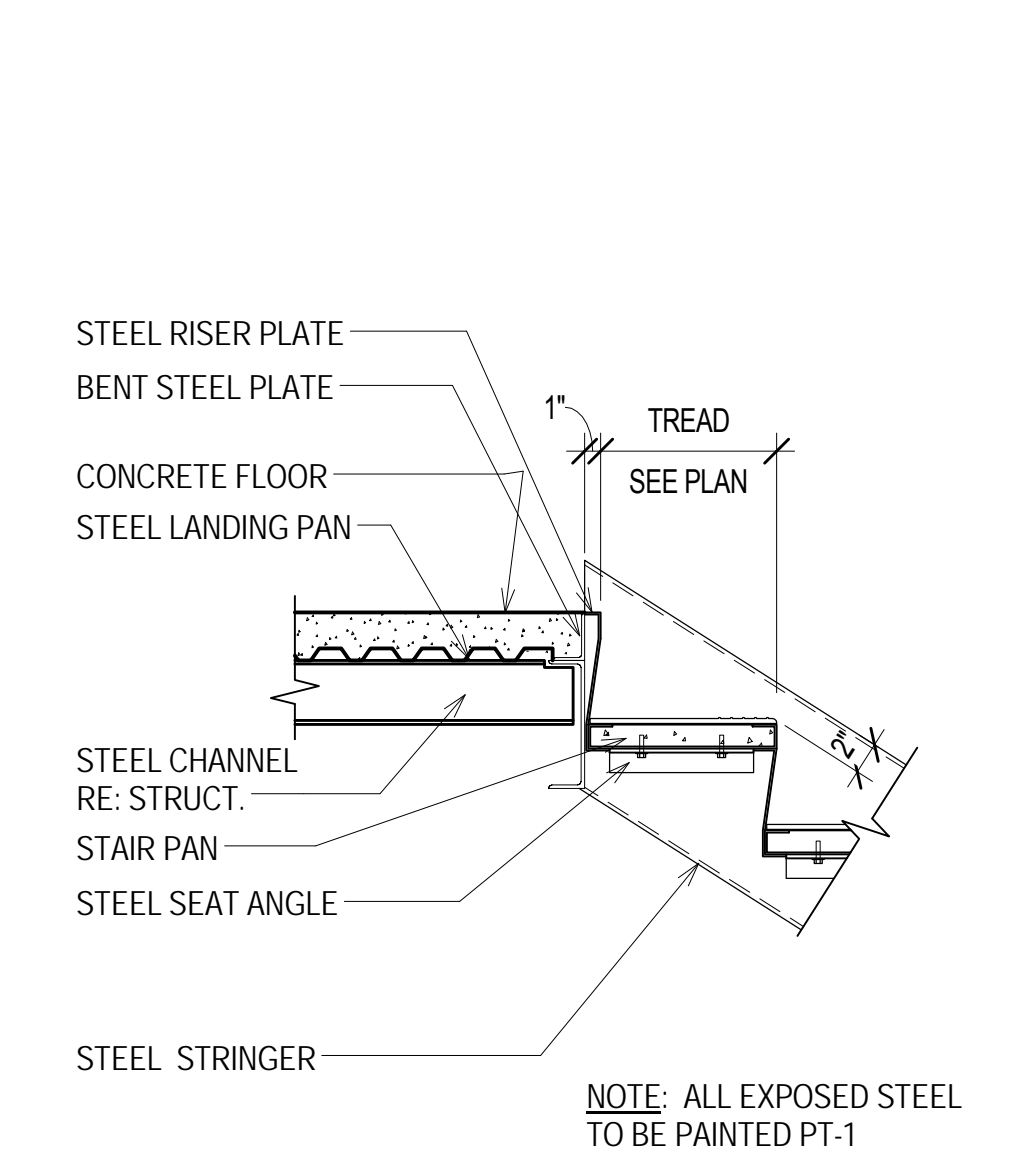
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9

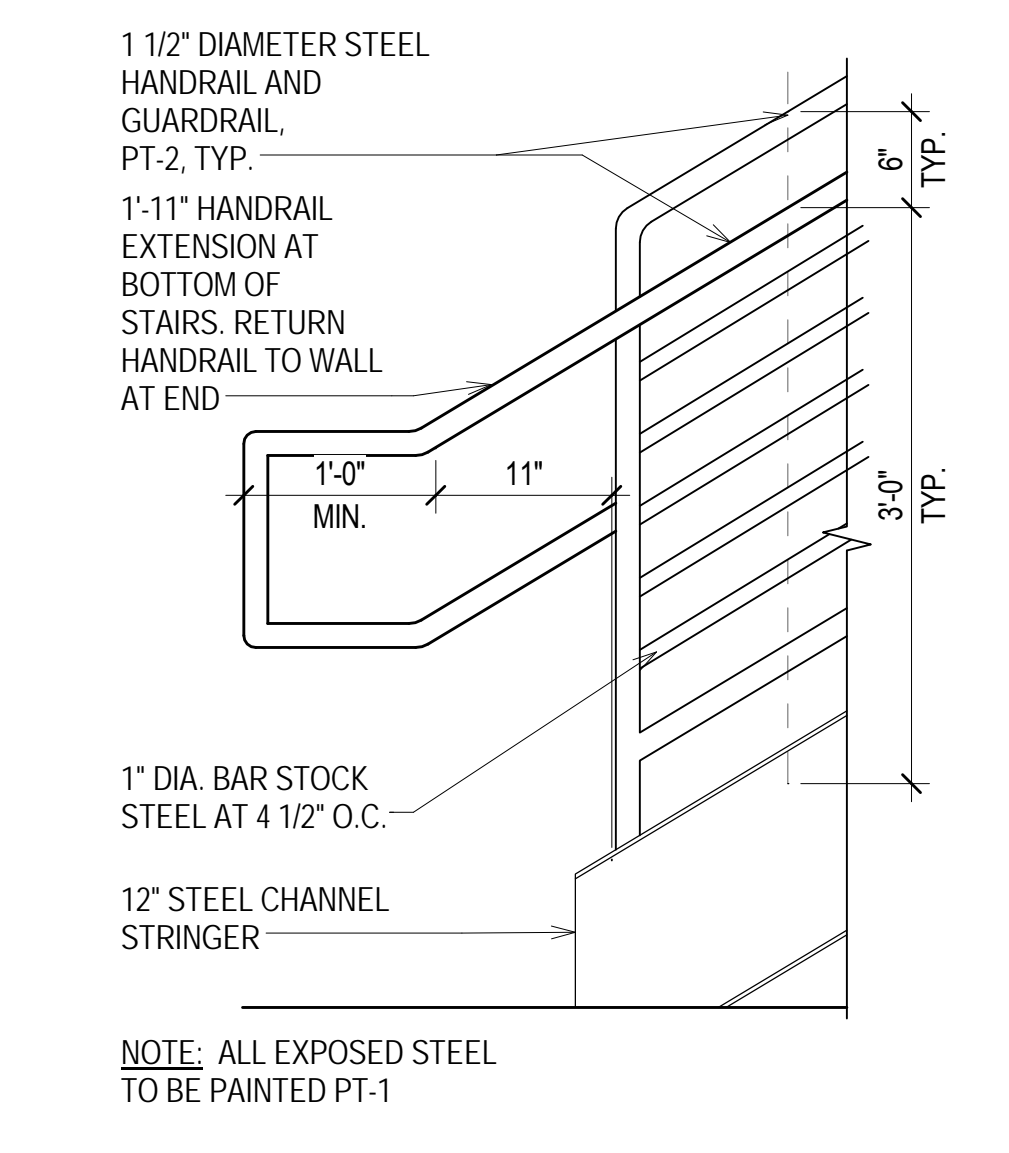
3  
A-423 STAIR GUARDRAIL, TYP  
1" = 1'-0"



5  
A-423 STAIR HEAD - HANDRAIL & GUARDRAIL, TYP  
1" = 1'-0"



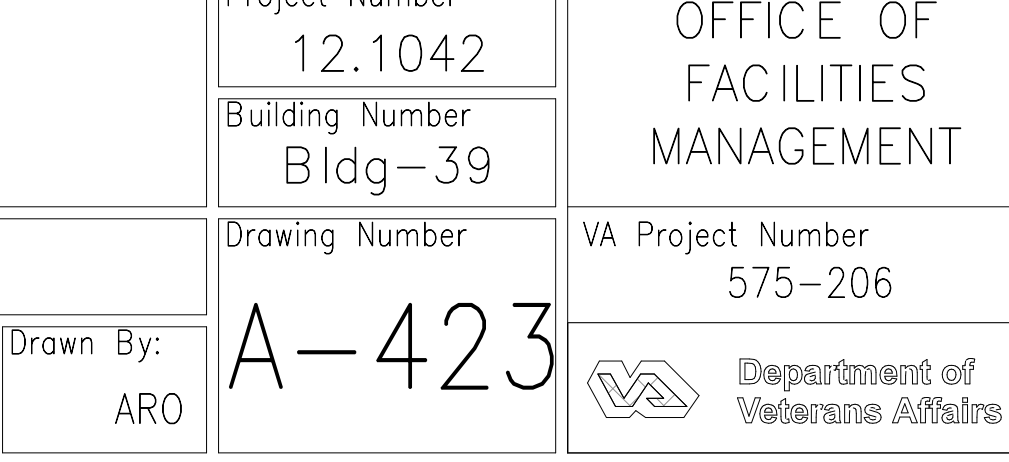
2  
A-423 STAIR DETAIL - HANDRAIL & GUARDRAIL, TYP  
1" = 1'-0"



4  
A-423 STAIR HEAD, TYP  
1" = 1'-0"

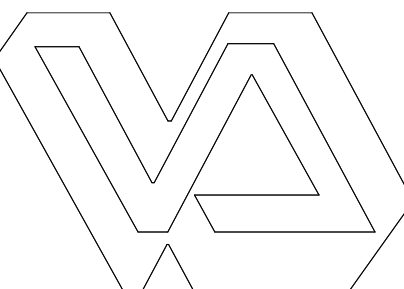


1  
A-423 STAIR BASE - HANDRAIL & GUARDRAIL, TYP  
1" = 1'-0"



ADDENDUM #1 FOR CONSTRUCTION

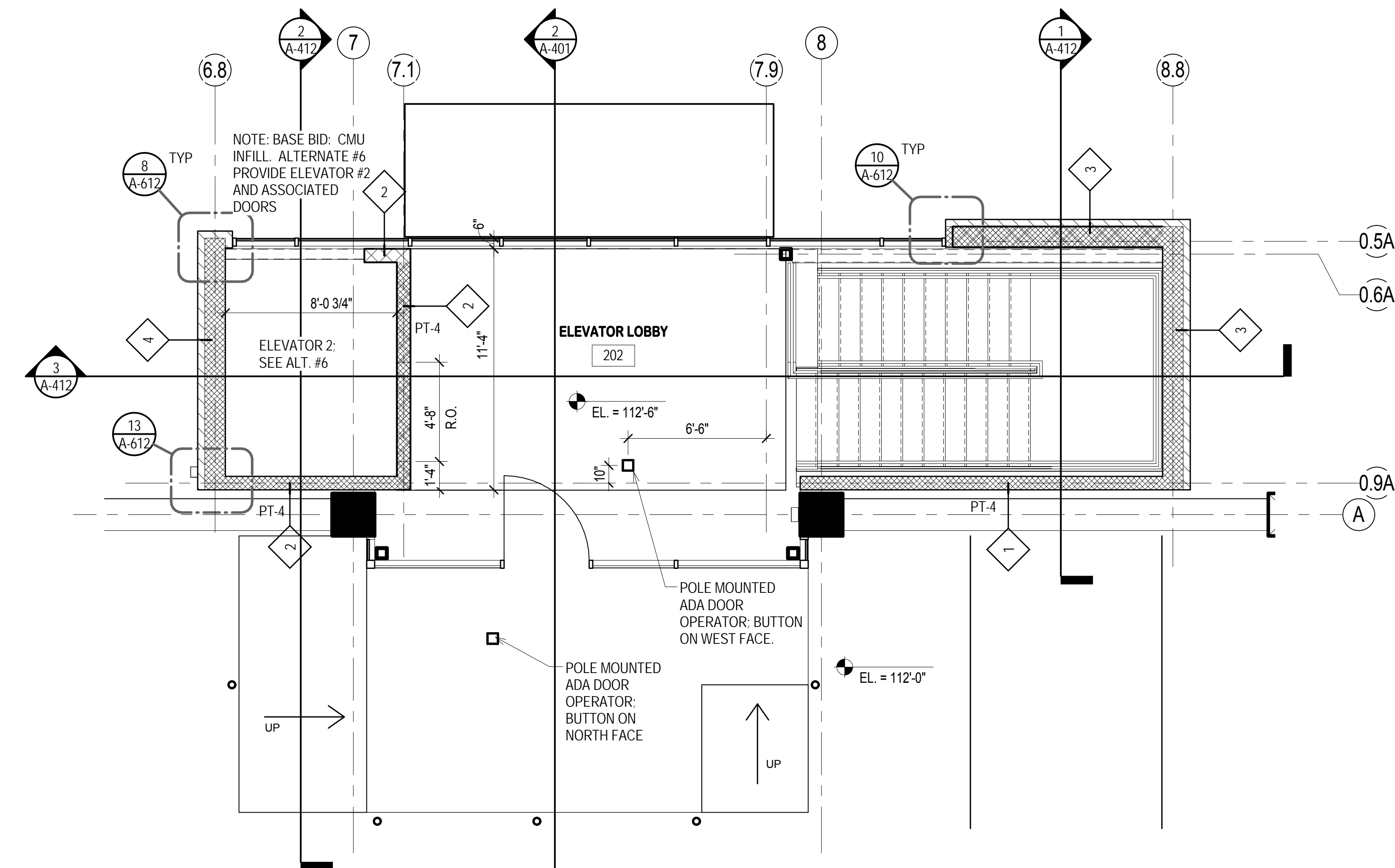
Drawing Title STAIR DETAILS	Project Title PARKING GARAGE	Project Number 12.1042	OFFICE OF FACILITIES MANAGEMENT
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VAMC	Building Number Bldg - 39	VA Project Number 575-206
Date 03/10/2014	Checked By: UJ	Drawn By: ARO	A-423 Department of Veterans Affairs



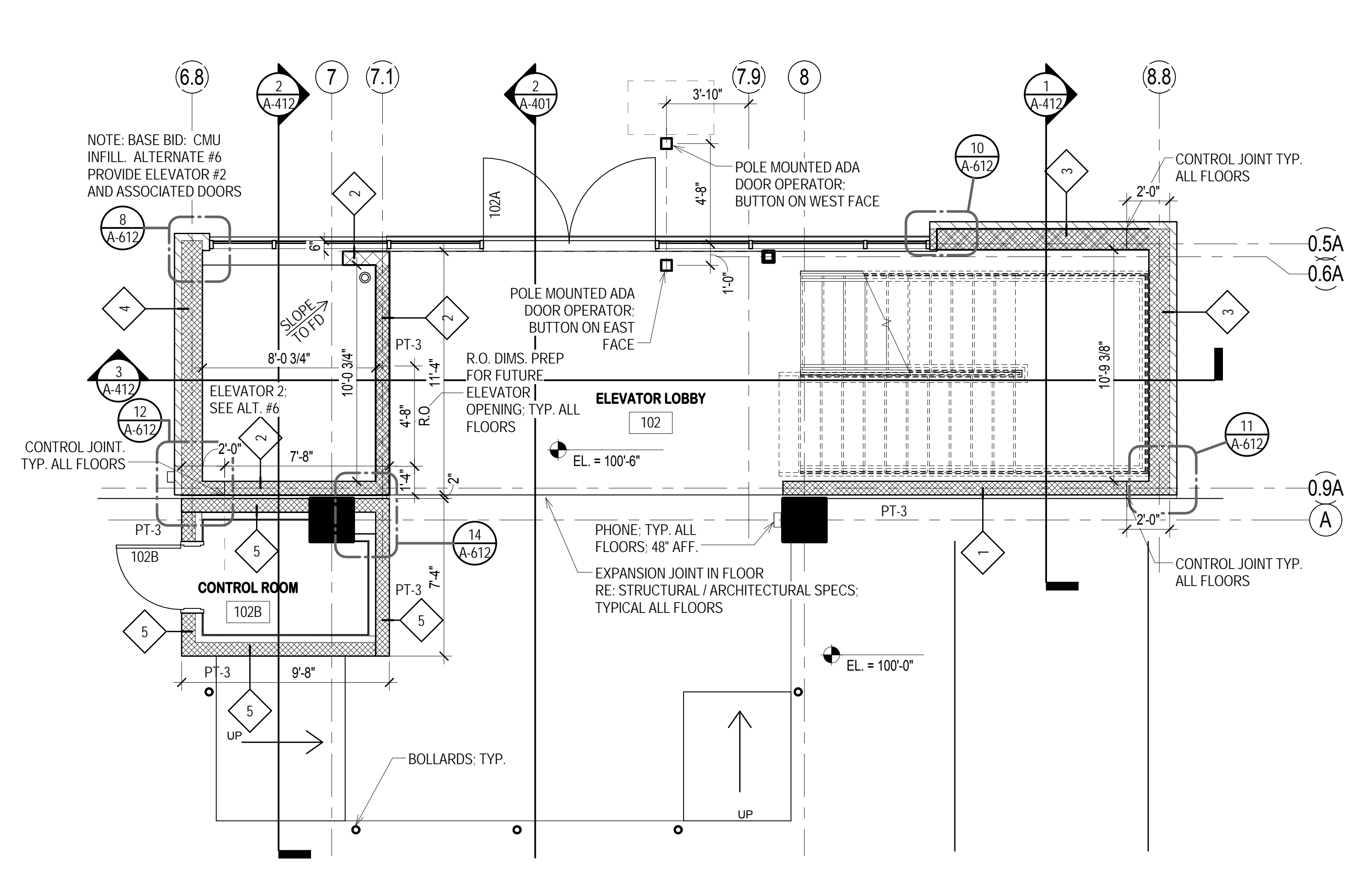
Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501



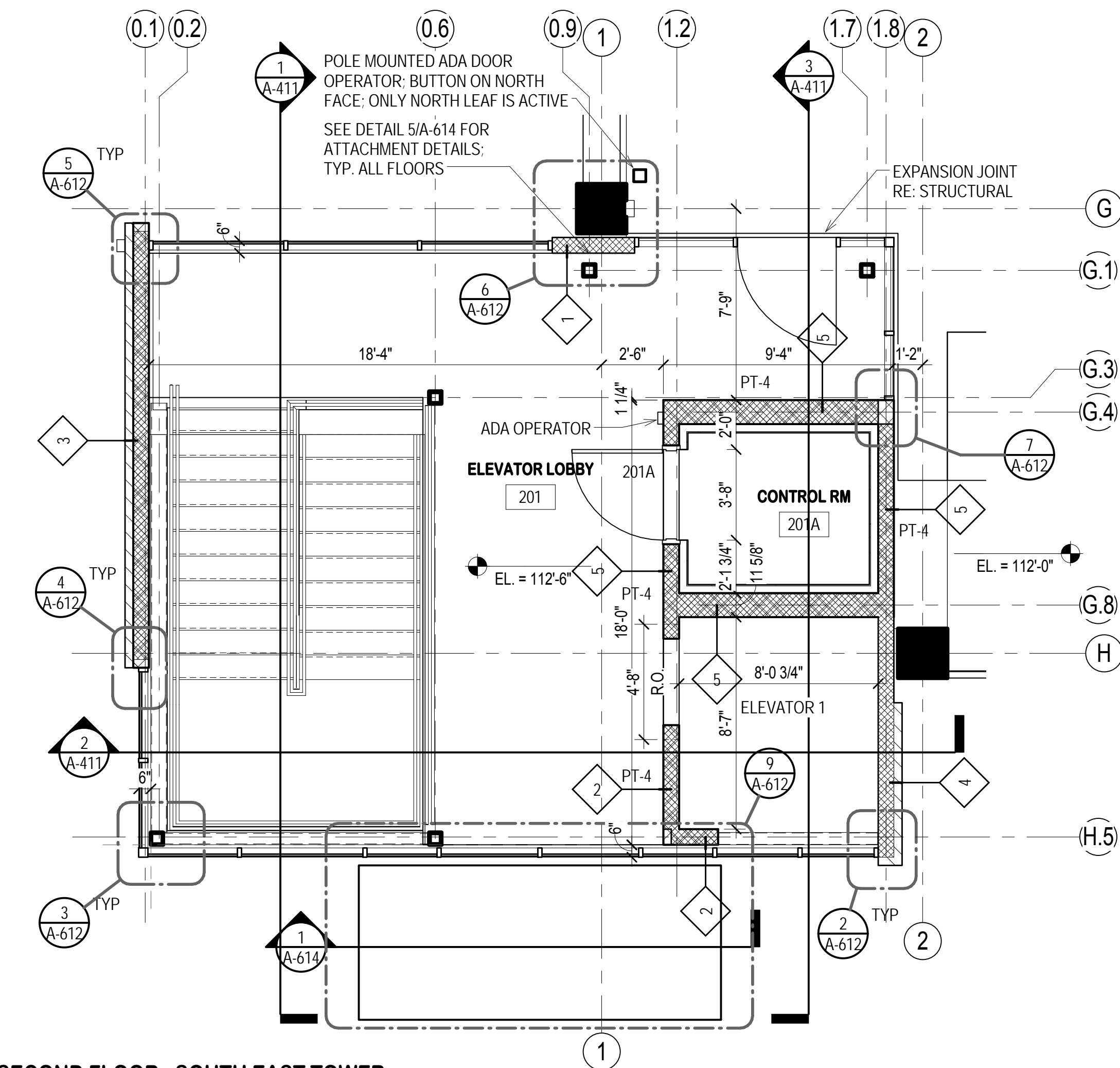
PROJECT LEADER/ARCHITECT:  
**GUIDON DESIGN**  
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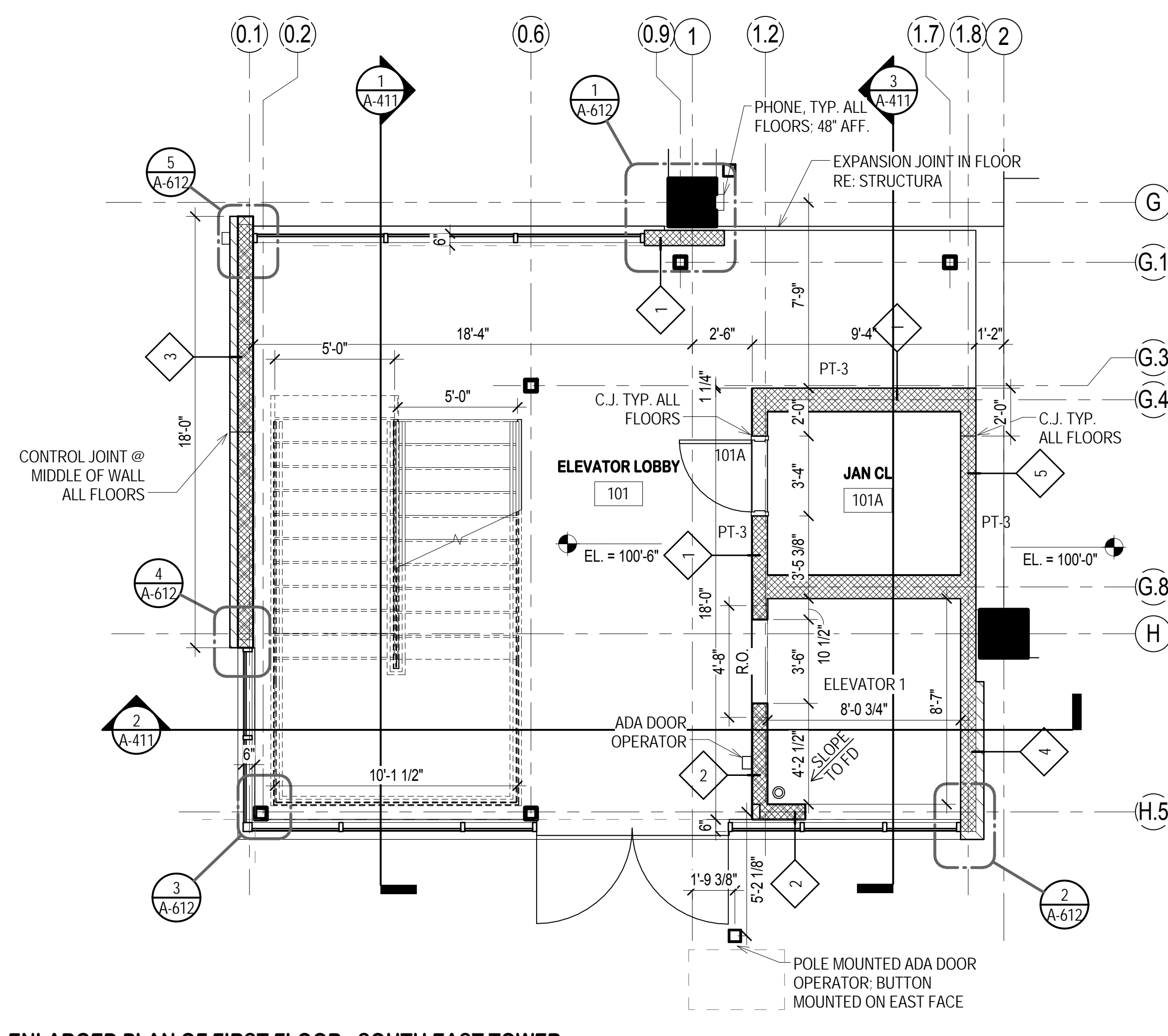
**ENLARGED PLAN OF SECOND FLOOR - WEST TOWER**  
1/4" = 1'-0"



**ENLARGED PLAN OF FIRST FLOOR - WEST TOWER**  
1/4" = 1'-0"



**ENLARGED PLAN OF SECOND FLOOR - SOUTH EAST TOWER**  
1/4" = 1'-0"



**ENLARGED PLAN OF FIRST FLOOR - SOUTH EAST TOWER**  
1/4" = 1'-0"

PARTITION TYPES	
TYPE	DESCRIPTION
1	8' / 12' CMU, PAINT BOTH SIDES
2	8' / 12' PAINTED CMU, EXTERIOR SIDE ONLY
3	8' / 12' PAINTED CMU, INTERIOR SIDE: MANUFACTURED STONE VENEER, EXTERIOR SIDE
4	MANUFACTURED STONE VENEER, EXTERIOR SIDE: 8' / 12' CMU, INTERIOR SIDE
5	8' / 12' CMU, PAINT EXTERIOR SIDE, 3 5/8" MTL. STUD FRAMED FURRING WALL ON INSIDE TO 2" ABOVE CEILING. R-11/3.5" BATT INSULATION BETWEEN STUDS.

Grand Junction VA  
Medical Center  
2121 North Avenue  
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**APOGEE**  
Consulting Group, PA

**CooverClark**

**AMERICAN STRUCTUREPOINT**  
INC.

PROJECT LEADER/ARCHITECT:

**GUIDON DESIGN**

2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
317.800.6388 WWW.GUIDONDESIGN.COM

**SUSTAINABLE ARCHITECTURE + ENGINEERING**

ADDENDUM #1 FOR CONSTRUCTION

Drawing Title: **ENLARGED PLANS**

Project Title: **PARKING GARAGE**

Project Number: **12.1042**

Building Number: **Bldg - 39**

Location: **Grand Junction VAMC**

Date: **03/10/2014**

Checked By: **UJ**

Drawn By: **ARO**

Approved for Design Concept: **John Bartman**  
John.Bartman@va.gov  
970-263-5016

VA Project Number: **575-206**

Department of Veterans Affairs

**A-501**





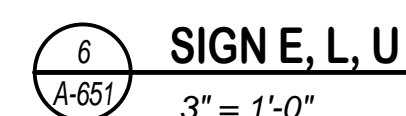
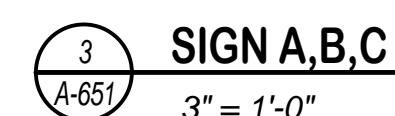




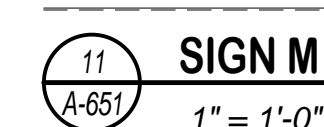
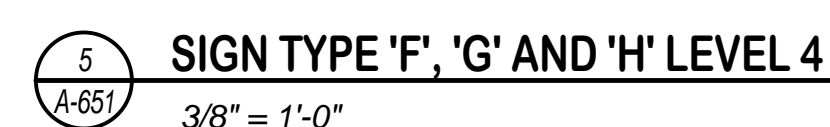
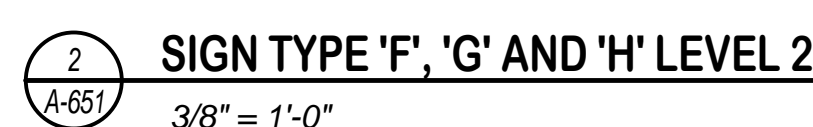
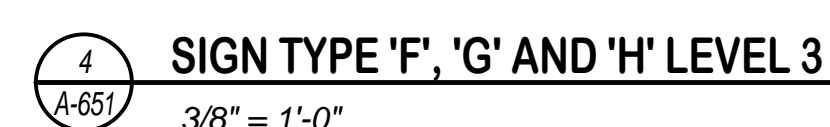
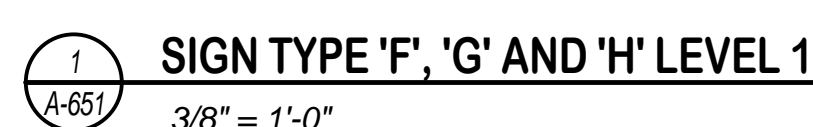









NOTE: GC TO VERIFY QUANTITIES



2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
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**SUSTAINABLE ARCHITECTURE + ENGINEERING**

ADDENDUM #1 FOR CONSTRUCTION				
Drawing Title SIGNAGE AND DETAILS	Project Title  PARKING GARAGE		Project Number 12.1042	OFFICE OF FACILITIES MANAGEMENT
			Building Number Bldg-39	
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VAMC		Drawing Number	VA Project Number 575-206
	Date 03/10/2014	Checked By: UJ	Drawn By: ARO	 Department of Veterans Affairs
			A-651	

PAINT SCHEDULE				
MARK	MANUFACTURER	COLOR	TYPE	COMMENTS
PT-1	TBD	WHITE	DRY FALL: LATEX	CEILINGS, MEP CEILING ELEMENTS, INTERIORS OF SERVICE ROOMS
PT-2	TBD	METALLIC SILVER	ENAMEL/ALKYD	ALL STAIR STRUCTURE, GUARDRAILS AND HANDRAILS
PT-3	TBD	BLUE	LATEX	
PT-4	TBD	GREEN	LATEX	
PT-5	TBD	RED	LATEX	
PT-6	TBD	YELLOW	LATEX	
PT-7	TBD	GRAY	ALKYD	ALL HOLLOW METAL DOORS AND FRAMES

DOOR AND FRAME SCHEDULE												
NUMBER	DOORS			NOMINAL DIMENSIONS			DOOR FRAMES			FIRE RATING	HWRE.SET	REMARKS
	TYPE	CONST.	FINISH	HEIGHT	WIDTH	THICKNESS	TYPE	MAT.	FINISH			
101A	A	HM	PAINT	7'-0"	3'-0"	1 3/4"	A	HM	PAINT	NONE	STORAGE - 001	
101B	STOREFRONT	ALUMINUM	CLEAR ANODIZED	7'-11"	8'-0"		STOREFRONT	ALUMINUM	CLEAR ANODIZED	NONE	PUSH-PULL - 004	ADA OPERATOR
102A	STOREFRONT	ALUMINUM	CLEAR ANODIZED	7'-11"	8'-0"		STOREFRONT	ALUMINUM	CLEAR ANODIZED	NONE	PUSH-PULL - 004	ADA OPERATOR
102B	A	HM	PAINT	7'-0"	3'-0"	1 3/4"	A	HM	PAINT	NONE	STORAGE - 002	14"X14" LOUVER
104A	A	HM	PAINT	7'-0"	3'-0"	1 3/4"	A	HM	PAINT	NONE	STORAGE - 002	
105A	A	HM	PAINT	7'-0"	3'-0"	1 3/4"	A	HM	PAINT	NONE	STORAGE - 002	
106A	A	HM	PAINT	7'-0"	3'-0"	1 3/4"	A	HM	PAINT	NONE	STORAGE - 003	
201	STOREFRONT	ALUMINUM	CLEAR ANODIZED	7'-11"	4'-0"		STOREFRONT	ALUMINUM	CLEAR ANODIZED	NONE	PUSH-PULL - 006	ADA OPERATOR
201A	B	HM	PAINT	7'-0"	3'-8"	1 3/4"	B	HM	PAINT	NONE	STORAGE - 001	14"X14" LOUVER
202A	STOREFRONT	ALUMINUM	CLEAR ANODIZED	7'-11"	4'-0"		STOREFRONT	ALUMINUM	CLEAR ANODIZED	NONE	PUSH-PULL - 006	ADA OPERATOR

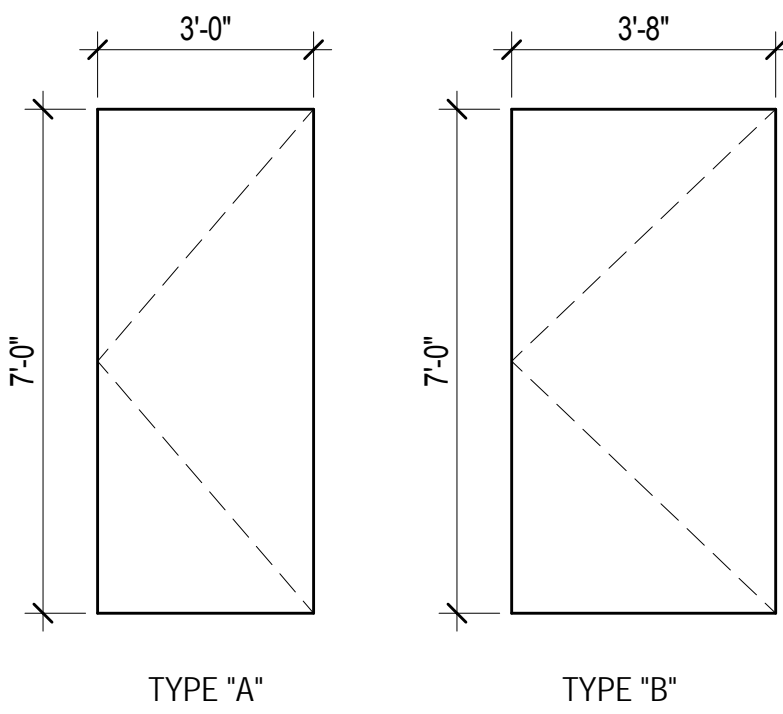
DOOR AND FRAME GENERAL NOTES

- ALL HOLLOW METAL DOORS AND FRAMES SHALL BE FACTORY PRIMED AND RECEIVE PAINT FINISH ON SITE.
- ALL DOORS ARE 1 3/4" THICK UNLESS OTHERWISE NOTED.
- ALL HOLLOW METAL JAMBS TO BE PREPARED FOR MAGNETIC LOCKS. NO CARD READERS.

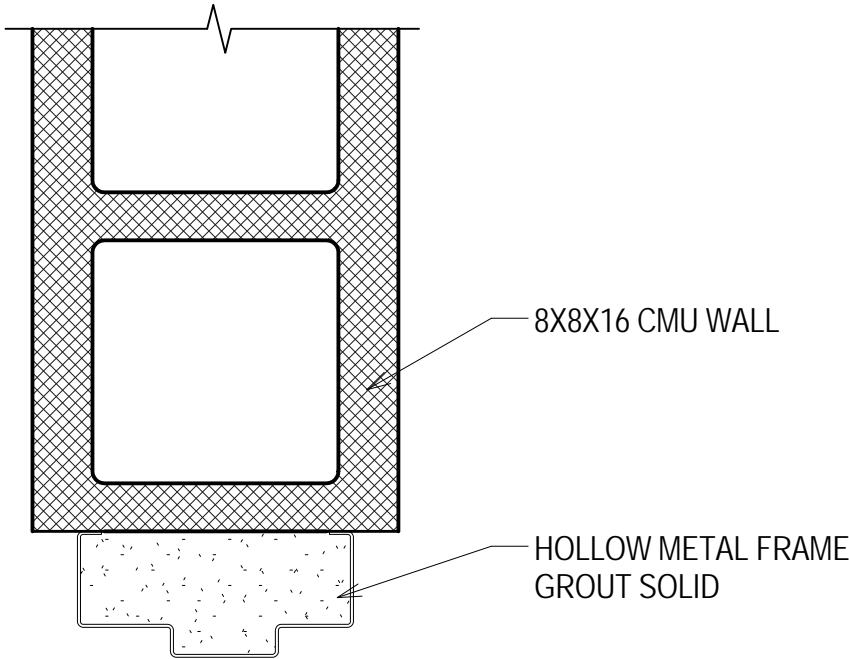
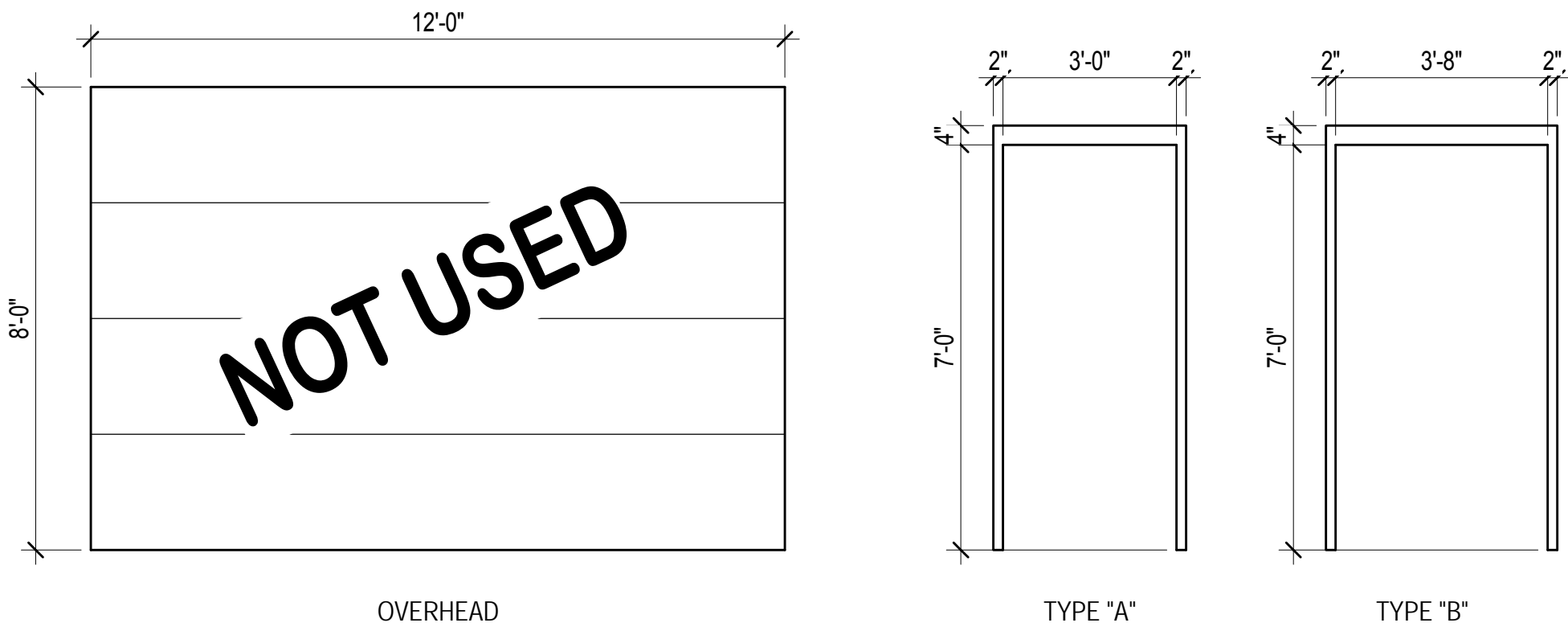
DOOR NOTES

- PAINT ALL HOLLOW METAL DOORS AND FRAMES PT-7
- REFER TO STOREFRONT ELEVATIONS FOR STOREFRONT DOORS

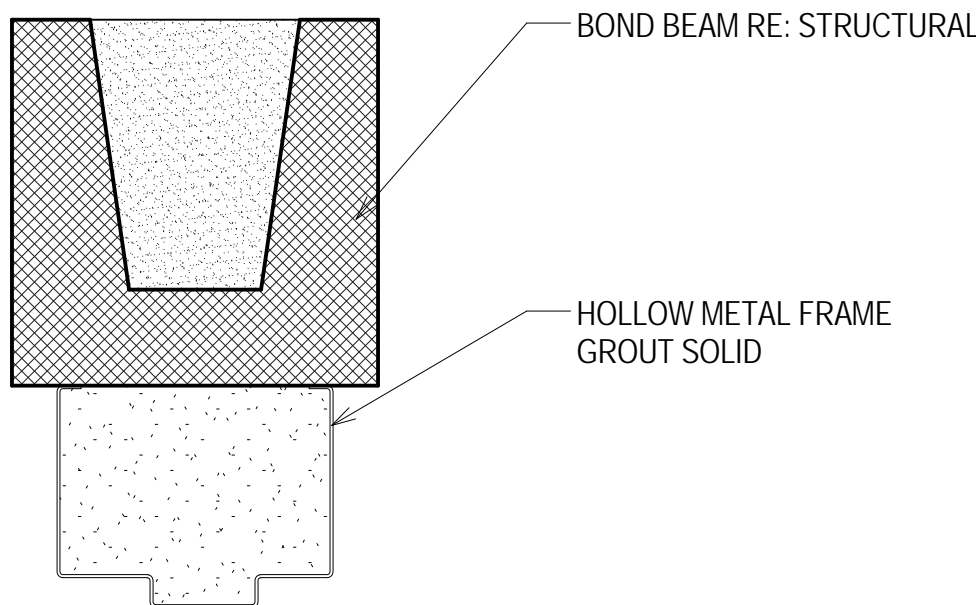
DOOR TYPES



FRAME TYPES



2  
A-811 DOOR JAMB DETAIL, TYP  
3" = 1'-0"



1  
A-811 DOOR HEAD DETAIL, TYP  
3" = 1'-0"

Revisions:

Date

Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501

PROJECT LEADER/ARCHITECT:

2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
317.800.6388 WWW.GUIDONDESIGN.COM  
SUSTAINABLE ARCHITECTURE + ENGINEERING

ADDENDUM #1 FOR CONSTRUCTION

Drawing Title  
SCHEDULES

Approved for Design Concept:  
John Bartman  
John.Bartman@va.gov  
970-263-5016

Project Title  
PARKING GARAGE

Location  
Grand Junction VAMC

Date  
03/10/2014

Checked By:  
UJ

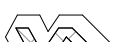
Drawn By:  
ARO

Project Number  
12.1042  
Building Number  
Bldg-39

Drawing Number  
A-811

VA Project Number  
575-206

Department of Veterans Affairs

ADDENDUM #1 FOR CONSTRUCTION						
Drawing Title FIRST FLOOR STRIPING PLAN		Project Title PARKING GARAGE			Project Number 12.1042	
					Building Number Bldg-39	
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016		Location Grand Junction VAMC			Drawing Number A-901	
		Date 03/10/2014	Checked By: UJ	Drawn By: ARO	VA Project Number 575-206	
					 Department of Veterans Affairs	





PLUMBING LEGEND

	SANITARY SEWER PIPING (SS)
	VENT PIPING (V)
	STORM DRAIN (SD)
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	HOT WATER CIRCULATION (HWC)
	PIPE TURNS UP
	PIPE TURNS DOWN
	CONTINUATION

PLUMBING GENERAL NOTES AND SPECIFICATIONS

- 1
- THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH ALL PROJECT SPECIFICATIONS, LOCAL, STATE, AND NATIONAL CODES ALONG WITH ALL VA STANDARDS. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- 2
- ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, REROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
- 3
- THESE PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, TEES, ELBOWS, ETC FOR A COMPLETE WORKING PLUMBING SYSTEM.
- 4
- THE PLUMBING CONTRACTOR SHALL COMPLY WITH ALL VA PERMIT AND INSPECTION PROCEDURES REQUIRED FOR THIS WORK.
- 5
- CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE OWNER 1 WEEK IN ADVANCE.
- 6
- ALL DOMESTIC PIPING SHOWN IS LOCATED ABOVE THE CEILING OR WITHIN WALLS UNLESS NOTED OTHERWISE.
- 7
- ALL PLUMBING FIXTURES AND KITCHEN EQUIPMENT SHALL HAVE A PISTON TYPE WATER HAMMER ARRESTOR SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- 8
- ALL SANITARY SEWER PIPING SHOWN IS LOCATED BELOW GRADE OR WITHIN WALLS UNLESS NOTED OTHERWISE. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING OR WITHIN WALLS UNLESS NOTED OTHERWISE.
- 9
- ALL PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY ALL LOCAL, STATE, AND NATIONAL CODES ALONG WITH ALL VA STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- 10
- ALL PIPING PENETRATIONS THRU NEW OR EXISTING WALLS OR FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE NEW OR EXISTING WALL OR FLOOR.
- 11
- ALL PLUMBING SYSTEMS SHALL BE TESTED AS REQUIRED PER ALL LOCAL, STATE, AND NATIONAL CODES ALONG WITH ALL VA STANDARDS.
- 12
- THE PLUMBING CONTRACTOR SHALL COORDINATE ALL PLUMBING PIPING WITH ALL STRUCTURAL COMPONENTS.
- 13
- THE ENTIRE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES ALONG WITH ALL VA STANDARDS.
- 14
- MANUFACTURER'S TRADE NAMES AND NUMBERS USED HEREIN ARE ONLY TO IDENTIFY COLORS, FINISHES, TEXTURES, AND PATTERNS AS THE BASIS OF DESIGN. PRODUCTS OF AUTHORIZED EQUAL MANUFACTURER'S EQUIVALENT TO COLORS, FINISHES, TEXTURES AND PATTERNS OF MANUFACTURERS LISTED THAT MEET REQUIREMENTS OF TECHNICAL SPECIFICATIONS IN EVERY RESPECT MAY BE ACCEPTABLE WITH SUBMITTAL OF A COMPLETED SUBSTITUTION REQUEST CONTAINING ALL PRODUCT DATA, TESTING AND ACTUAL SAMPLES AND UPON APPROVAL IN WRITING BY CONTRACTING OFFICER.


PLUMBING ABBREVIATIONS

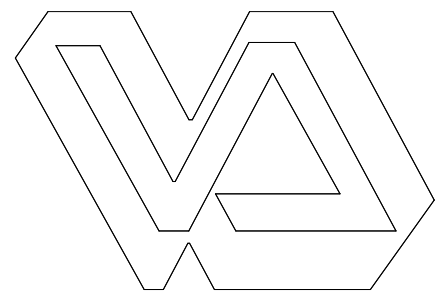
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
CW	COLD WATER
CV	COMMON VENT
FCO	FLOOR CLEANOUT (FLOOR OR SLAB)
FD	FLOOR DRAIN
GCO	GROUND CLEANOUT
GW	GREASE WASTE
HB	HOSE BIBB
HD	HUB DRAIN
IND	INDIRECT DRAIN
HW	HOT WATER
P.#	PLUMBING FIXTURE - NUMBER
P.C.	PLUMBING CONTRACTOR
SS	SANITARY SEWER
V	VENT
V.T.R.	VENT THROUGH ROOF
W	WASTE
WCO	WALL CLEANOUT
SD	STORM WATER
HWC	HOW WATER CIRCULATION
IW	ICED WATER (SUPPLY)

DEDUCT ALTERNATES:

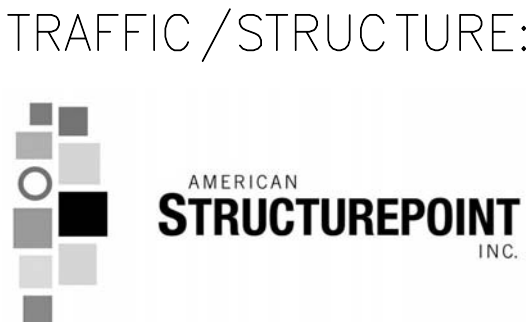
- ALTERNATE NO. 1:  
REMOVE METAL CANOPY AND ASSOCIATED STRUCTURE AT BOT PEDESTRIAN WALKWAYS AND THE VEHICLE ENTRY. MOUNT SIGNAGE DIRECTLY TO CONCRETE STRUCTURE.
- ALTERNATE NO. 2:  
REDUCE AMOUNT OF LANDSCAPING.
- ALTERNATE NO. 3:  
PROVIDE 15 FLUORESCENT LIGHT FIXTURE IN LIEU OF LED LIGHTING FIXTURE.
- ALTERNATE NO. 4:  
DO NOT PROVIDE BROWN CONCRETE STAIN ON COLUMNS AT FIRST FLOOR.
- ALTERNATE NO. 5:  
DO NOT PROVIDE CAST STONE AND INSTALL STUCCO IN ALL LOCATIONS WHERE CAST STONE IS SHOWN.
- ALTERNATE NO. 6:  
DEDUCT THE CAB, DOORS AND ASSOCIATED EQUIPMENT FOR ELEVATOR #2. PROVIDE CONCRETE BLOCK INFILL IN PLACE OF DOORS. FINISH TO MATCH ADJACENT WALL.
- ALTERNATE NO. 7:  
DO NOT CONSTRUCT SOUTH ACCESS DRIVE. DO NOT RELOCATE TELECOMMUNICATIONS MANHOLE/ASSOCIATED WIRING. DO NOT CONSTRUCT PLAZA COURTYARD. DO NOT PROVIDE/RELOCATE SITE LIGHTING ALONG SOUTH ACCESS DRIVE. DO NOT PROVIDE ACCESS CONTROL EQUIPMENT. CONSTRUCT SIDEWALK AND PEDESTRIAN CROSSING AS INDICATED IN DRAWINGS FOR THIS ALTERNATE.
- ALTERNATE NO. 8:  
REDUCE AMOUNT OF SITE SIGNAGE.
- ALTERNATE NO. 9:  
PROVIDE AN ADDITIONAL 3RD FLOOR PARKING DECK. EXTEND ELEVATOR AND STAIR SHAFTS VERTICALLY BY 12 FEET.

ADDENDUM #1 FOR CONSTRUCTION

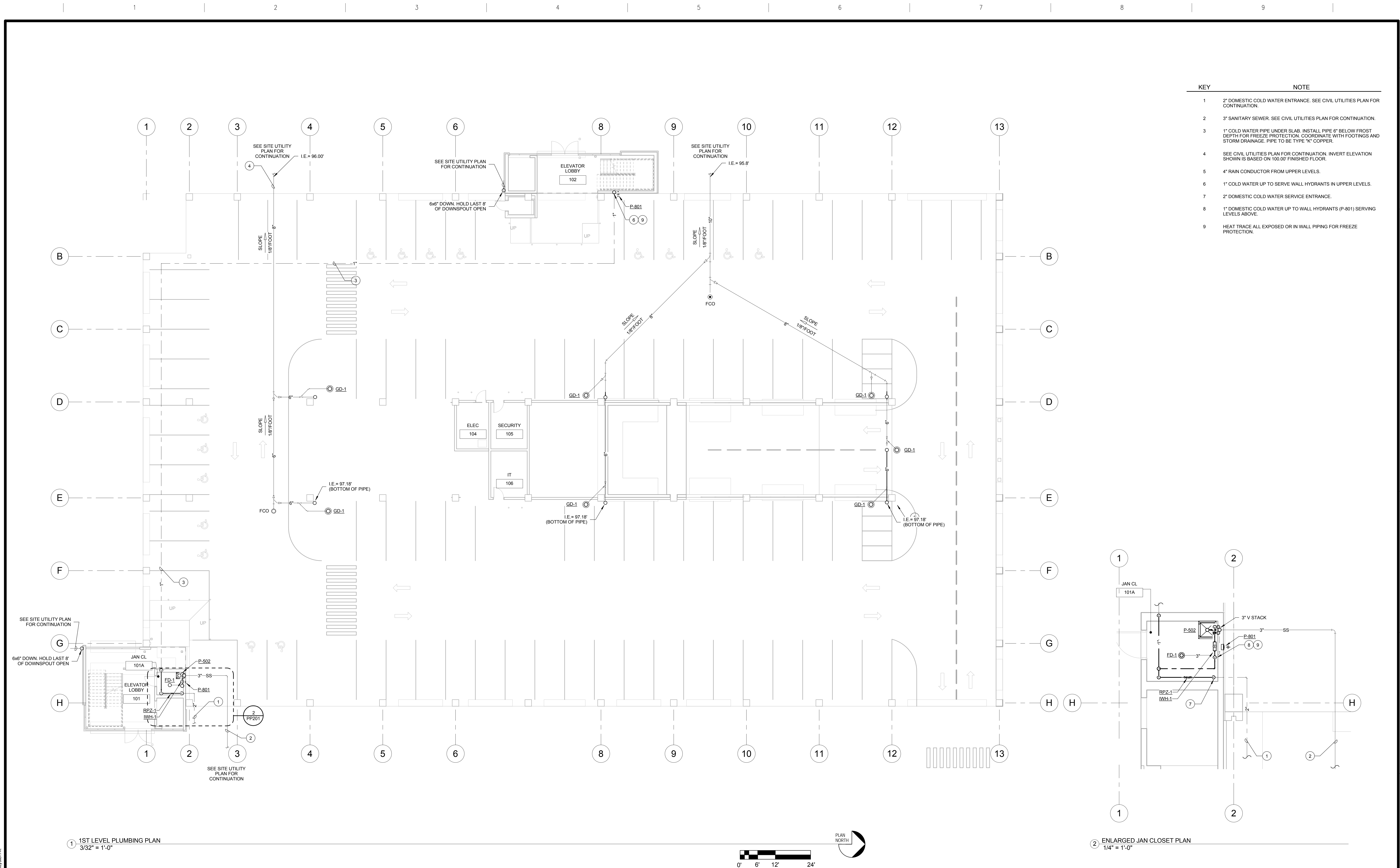
Drawing Title PLUMBING NOTES AND LEGEND	Project Title PARKING STRUCTURE		Project Number 12.1042	OFFICE OF FACILITIES MANAGEMENT
			Building Number Bldg-39	
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA		Drawing Number  P-001	VA Project Number 575-206
	Date 3.10.14	Checked By: DJR		 Department of Veterans Affairs
		Drawn By: ORD		



Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501



three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot



KEY	NOTE
1	2\" DOMESTIC COLD WATER ENTRANCE. SEE CIVIL UTILITIES PLAN FOR CONTINUATION.
2	3\" SANITARY SEWER. SEE CIVIL UTILITIES PLAN FOR CONTINUATION.
3	1\" COLD WATER PIPE UNDER SLAB. INSTALL PIPE 6\" BELOW FROST DEPTH FOR FREEZE PROTECTION. COORDINATE WITH FOOTINGS AND STORM DRAINAGE. PIPE TO BE TYPE \"K\" COPPER.
4	SEE CIVIL UTILITIES PLAN FOR CONTINUATION. INVERT ELEVATION SHOWN IS BASED ON 100.00' FINISHED FLOOR.
5	4\" RAIN CONDUCTOR FROM UPPER LEVELS.
6	1\" COLD WATER UP TO SERVE WALL HYDRANTS IN UPPER LEVELS.
7	2\" DOMESTIC COLD WATER SERVICE ENTRANCE.
8	1\" DOMESTIC COLD WATER UP TO WALL HYDRANTS (P-801) SERVING LEVELS ABOVE.
9	HEAT TRACE ALL EXPOSED OR IN WALL PIPING FOR FREEZE PROTECTION.

1 1ST LEVEL PLUMBING PLAN  
3/32\" = 1'-0\"

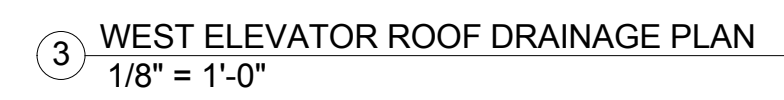
2 ENLARGED JAN CLOSET PLAN  
1/4\" = 1'-0\"

<div>Revisions:</div> <table><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>									<div>Grand Junction VA Medical Center</div> <div>2121 North Avenue</div> <div>Grand Junction, CO 81501</div>	<div>MEP:</div> <div>APOGEE Consulting Group, PA</div>	<div>ARCHITECTURE:</div> <div>CooverClark</div>	<div>TRAFFIC/STRUCTURE:</div> <div>AMERICAN STRUCTUREPOINT INC.</div>	<div>PROJECT LEADER/ARCHITECT:</div> <div>GUIDON DESIGN</div> <div>2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205</div> <div>317.800.6388 WWW.GUIDONDESIGN.COM</div> <div>SUSTAINABLE ARCHITECTURE + ENGINEERING</div>	ADDENDUM #1 FOR CONSTRUCTION			
<div>Drawing Title</div> <div>1ST LEVEL PLUMBING PLAN</div>		<div>Project Title</div> <div>PARKING STRUCTURE</div>	<div>Project Number</div> <div>12.1042</div>	<div>OFFICE OF FACILITIES MANAGEMENT</div>													
<div>Approved for Design Concept:</div> <div>John Bartman</div> <div>John.Bartman@va.gov</div> <div>970-263-5016</div>		<div>Building Number</div> <div>Bldg-39</div>	<div>Drawing Number</div> <div>PP201</div>														
<div>Date</div> <div>3.10.14</div>		<div>Checked By:</div> <div>DJR</div>	<div>Drawn By:</div> <div>ORD</div>		<div>VA Project Number</div> <div>575-206</div>												
						<div>Department of Veterans Affairs</div>											



1 SEE ALTERNATE #8 FOR ROOF LEVEL INFORMATION.

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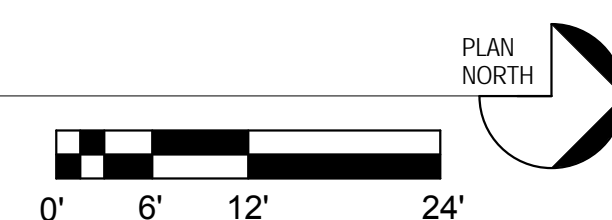
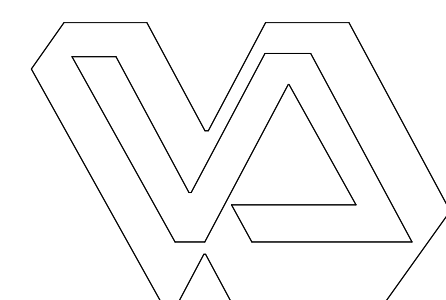


③ WEST ELEVATOR ROOF DRAINAGE PLAN  
1/8" = 1'-0"



2 SOUTH EAST ELEVATOR ROOF DRAINAGE PLAN  
1/8" = 1'-0"

4 2ND LEVEL PLUMBING PLAN  
3/32" = 1'-0"

[illegible]

Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501



ARCHITECTURE:

**CooverClark**




PROJECT LEADER/ARCHITECT:

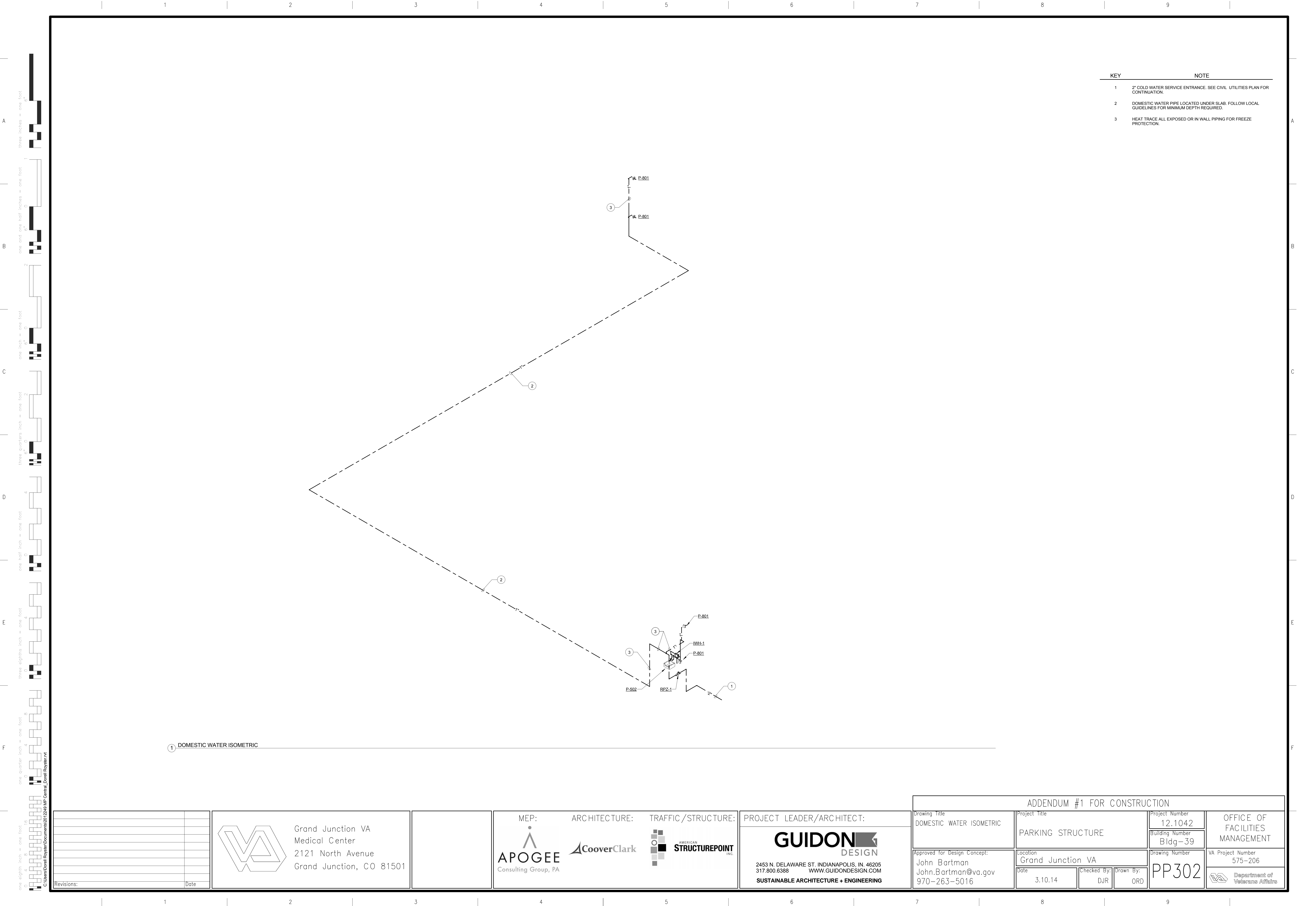
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**SUSTAINABLE ARCHITECTURE + ENGINEERING**

ADDENDUM #1 FOR CONSTRUCTION

Drawing Title 2ND LEVEL PLUMBING PLAN	Project Title PARKING STRUCTURE	Project Number 12.1042	OFFICE OF FACILITIES MANAGEMENT
		Building Number Bldg-39	
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA	Drawing Number PP202	VA Project Number 575-206
	Date 3.10.14	Checked By: DJR	 Department of Veterans Affairs
		Drawn By: ORD	








A

three inches = one foot

6"



D

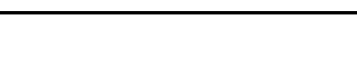
one half inch = one foot

4

Free eighths inch = one foot

Figure F shows box plots for the number of eggs per egg mass for four different egg masses. The y-axis is labeled 'e quarter inch = one foot' and ranges from 0 to 8. The x-axis shows four egg masses. Each box plot shows the median, quartiles, and range of eggs per egg mass.

one eighth inch = one foot




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**SUSTAINABLE ARCHITECTURE + ENGINEERING**

ADDENDUM #1 FOR CONSTRUCTION					
Drawing Title PLUMBING SCHEDULE	Project Title PARKING STRUCTURE		Project Number 12.1042		OFFICE OF FACILITIES MANAGEMENT
			Building Number Bldg-39		
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA		Drawing Number		VA Project Number 575-206
	Date 3.10.14	Checked By: DJR	Drawn By: ORD	PP601	 Department of Veterans Affairs

MECHANICAL GENERAL NOTES AND SPECIFICATIONS

- 1 ALL WORK SHALL CONFORM TO ALL LOCAL, STATE, AND NATIONAL CODES ALONG WITH ALL VA STANDARDS. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN RECOMMENDATIONS.
- 2 THE MECHANICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED FOR HIS WORK.
- 3 ALL MATERIALS, EQUIPMENT AND PRODUCTS INCORPORATED IN THE WORK UNDER THE CONTRACT SHALL BE NEW, OF A SUITABLE GRADE FOR THE PURPOSES INTENDED, AND TO THE EXTENT POSSIBLE, STANDARD PRODUCTS OF THE VARIOUS MANUFACTURERS EXCEPT WHERE SPECIAL CONSTRUCTION OR PERFORMANCE FEATURES ARE CALLED FOR.
- 4 ANY EQUIPMENT OR MATERIAL DEVIATIONS FROM THAT SPECIFIED OR DETAILED ON THIS DRAWING SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT/ENGINEER. ALL PROPOSED EQUIPMENT DEVIATIONS SUBMITTED SHALL BE SIMILAR BOTH IN QUALITY AND CAPACITY TO THAT EQUIPMENT SPECIFIED.
- 5 ALL MECHANICAL EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITERS LABORATORIES (U.L.).
- 6 THE MECHANICAL CONTRACTOR SHALL INSTALL EQUIPMENT AS SHOWN ON THE DRAWINGS ALLOWING FOR SUFFICIENT ACCESS AND CLEARANCE SPACE FOR EQUIPMENT MAINTENANCE, REPAIRS AND REPLACEMENT. PROVIDE PROPER CLEARANCES FOR REQUIRED PIPING AND ELECTRICAL SERVICES AND CONNECTIONS. INSTALL ALL EQUIPMENT WITH REQUIRED ACCESS AND CLEARANCES IN ACCORDANCE WITH MANUFACTURERS WRITTEN RECOMMENDATIONS AND/OR WITH ALL APPLICABLE CODES AND STANDARDS.
- 7 THE MECHANICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION AND ROUTING OF ALL PROPOSED DUCTWORK, PIPING AND EQUIPMENT WITHIN THE BUILDING STRUCTURE.
- 8 THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL HIS OWN SUPPORT EQUIPMENT. LOCATIONS SHALL BE COORDINATED WITH ALL CONTRACTORS PRIOR TO INSTALLATION.
- 9 THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER CONNECTIONS TO THE EQUIPMENT PROVIDED UNDER THIS CONTRACT.
- 10 THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONTROL WIRING FOR HIS EQUIPMENT.
- 11 DUCTWORK AND PIPING LAYOUTS AND LOCATIONS ARE SCHEMATIC. DO NOT SCALE THESE DRAWINGS. EXACT ROUTING OF DUCTWORK AND PIPING MUST BE DETERMINED IN THE FIELD. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR BY ACTUAL MEASUREMENT AND OBSERVATION BEFORE ORDERING OR FABRICATING ANY DUCTWORK, PIPING OR EQUIPMENT. ANY DISCREPANCIES BETWEEN THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND THE EXISTING CONDITIONS OR DIMENSIONS SHALL BE REPORTED TO THE A/E AND VMAO COTR BEFORE THE PERFORMANCE OF ANY WORK. FAILURE TO VERIFY AND REPORT SHALL CONSTITUTE THE CONTRACTOR'S ACCEPTANCE OF THE EXISTING CONDITIONS AS FIT FOR THE PROPER EXECUTION OF HIS WORK. SEE ARCHITECTURAL DRAWINGS FOR FINAL LOCATION OF CEILING INSTALLED.
- 12 DUCTWORK AND PIPING SHALL BE KEPT AS CLOSE AND HIGH AS POSSIBLE TO THE BUILDING WALLS, CEILING AND FLOOR AND ROOF STRUCTURE IN ORDER THAT THE MAXIMUM AMOUNT OF SPACE IS AVAILABLE. ADDITIONAL OFFSETS, FITTINGS, ETC. NOT SHOWN BUT REQUIRED TO MAINTAIN MAXIMUM CLEARANCE SHALL BE PROVIDED AT NO ADDITIONAL COST.
- 13 THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PATCHING, PAINTING AND CLEANING ASSOCIATED WITH THIS PROJECT UNLESS NOTED OTHERWISE.
- 14 PROVIDE A COMPLETE 1-YEAR WARRANTY ON ALL LABOR AND MATERIALS.
- 15 CONTRACTOR SHALL FURNISH A BOUND SET OF OPERATING AND MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT TO THE OWNER UPON COMPLETION OF PROJECT.
- 16 INSTALL ESCUTCHEONS IN ALL PLACES WHERE PIPING PENETRATES A WALL IN AN EXPOSED LOCATION.
- 17 THE MECHANICAL CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS, INCLUDING THE SCHEDULES AND DETAILS PRIOR TO INSTALLATION OF ANY MECHANICAL SYSTEMS AND SHALL RESOLVE ANY CONFLICTS WITH THE ENGINEER.
- 18 CONTRACTOR SHALL TAKE POSSESSION OF AND DISPOSE OF ALL EXISTING MATERIALS AND EQUIPMENT BEING DEMOLISHED AND/OR REMOVED. ALL ITEMS SHALL BE DISPOSED OF IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS, RULES, AND REGULATIONS THAT APPLY. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISPOSAL.
- 19 INSTALL SHUTOFF-DUTY VALVES AT EACH BRANCH CONNECTION TO SUPPLY MAINS, AND AT SUPPLY CONNECTION TO EACH PIECE OF EQUIPMENT. INSTALL CHECK VALVES AT EACH PUMP DISCHARGE AND ELSEWHERE AS REQUIRED TO CONTROL FLOW DIRECTION.
- 20 DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PIPING SYSTEMS. INSTALL PIPING INDICATED TO BE EXPOSED AND PIPING IN EQUIPMENT ROOMS AND SERVICE AREAS AT RIGHT ANGLES OR PARALLEL TO BUILDING WALLS. DIAGONAL RUNS ARE PROHIBITED UNLESS SPECIFICALLY INDICATED OTHERWISE. INSTALL PIPING FREE OF SAGS AND BENDS. INSTALL PIPING TO ALLOW APPLICATION OF INSULATION.
- 21 REAM ENDS OF PIPES AND TUBES AND REMOVE BURRS. BEVEL PLAIN ENDS OF STEEL PIPE. REMOVE SCALE, SLAG, DIRT, AND DEBRIS FROM INSIDE AND OUTSIDE OF PIPE AND FITTINGS BEFORE ASSEMBLY.
- 22 THREADED JOINTS: THREAD PIPE WITH TAPERED PIPE THREADS ACCORDING TO ASME B1.20.1. CUT THREADS FULL AND CLEAN USING SHARP DIES. REAM THREADED PIPE ENDS TO REMOVE BURRS AND RESTORE FULL ID. JOIN PIPE FITTINGS AND VALVES AS FOLLOWS: APPLY APPROPRIATE TAPE OR THREAD COMPOUND TO EXTERNAL PIPE THREADS UNLESS DRY SEAL THREADING IS SPECIFIED. DAMAGED THREADS: DO NOT USE PIPE OR PIPE FITTINGS WITH THREADS THAT ARE CORRODED OR DAMAGED. DO NOT USE PIPE SECTIONS THAT HAVE CRACKED OR OPEN WELDS.
- 23 INSTALL MANUAL AIR VENTS AT HIGH POINTS IN PIPING, AT HEAT-TRANSFER COILS, AND ELSEWHERE AS REQUIRED FOR SYSTEM AIR VENTING.
- 24 CUT INSULATION IN A MANNER TO AVOID COMPRESSING INSULATION MORE THAN 75 PERCENT OF ITS NOMINAL THICKNESS. FINISH INSTALLATION WITH SYSTEMS AT OPERATING CONDITIONS. REPAIR JOINT SEPARATIONS AND CRACKING DUE TO THERMAL MOVEMENT. REPAIR DAMAGED INSULATION FACINGS BY APPLYING SAME FACING MATERIAL OVER DAMAGED AREAS. EXTEND PATCHES AT LEAST 4 INCHES BEYOND DAMAGED AREAS. ADHERE, STAPLE, AND SEAL PATCHES SIMILAR TO BUTT JOINTS.
- 25 INSULATE INSTRUMENT CONNECTIONS FOR THERMOMETERS, PRESSURE GAGES, PRESSURE TEMPERATURE TAPS, TEST CONNECTIONS, FLOW METERS, SENSORS, SWITCHES, AND TRANSMITTERS ON INSULATED PIPES, VESSELS, AND EQUIPMENT. SHAPE INSULATION AT THESE CONNECTIONS BY TAPERING IT TO AND AROUND THE CONNECTION WITH INSULATING CEMENT AND FINISH WITH FINISHING CEMENT, MASTIC, AND FLASHING SEALANT.
- 26 THE MECHANICAL CONTRACTOR SHALL TAKE THE LEAD IN PREPARATION OF COORDINATION DRAWINGS. SUCH DRAWINGS SHALL BE COMPLETED WITH COORDINATION FROM THE GENERAL CONTRACTOR AND ALL OTHER MAJOR AND MINOR SUBCONTRACTORS. PROVIDE PLAN VIEWS, SECTIONS AND ELEVATIONS AS REQUIRED, TO FULLY COORDINATE ALL NEW WORK WITH ITSELF AND EXISTING CONDITIONS. DRAWINGS SHALL SHOW, BUT NOT BE LIMITED TO, ALL DUCTWORK, AIR DISTRIBUTION, MECHANICAL EQUIPMENT, MECHANICAL PIPING, FIRE PROTECTION PIPING, PLUMBING PIPING, CABLE TRAYS, LIGHTING FIXTURES, CEILING GRID AND HEIGHT, BEAMS AND JOISTS (WITH ELEVATIONS MARKED), ELECTRICAL CONDUIT LARGER THAN 2 INCHES IN DIAMETER AND ANY OTHER CEILING MOUNT DEVICES OR EQUIPMENT THAT PROTRUDE INTO THE CEILING CAVITY. IF THERE ARE ANY OUTSTANDING ISSUES THAT CANNOT BE RESOLVED, CONSULT WITH ARCHITECT AND/OR ENGINEER (THROUGH THE VA COTR) FOR GUIDANCE AND MAKE CORRECTIONS IN ACCORDANCE WITH DIRECTIONS GIVEN. IT IS IMPORTANT TO NOTE THAT FABRICATION CANNOT BEGIN UNTIL COORDINATION DRAWINGS HAVE BEEN APPROVED. ANY INSTALLATION COMMENCED PRIOR TO APPROVAL IS TAKEN AT THE CONTRACTORS OWN RISK AND MAY HAVE TO BE MODIFIED, MOVED AND/OR RECONFIGURED AT CONTRACTORS COST.
- 27 MANUFACTURER'S TRADE NAMES AND NUMBERS USED HEREIN ARE ONLY TO IDENTIFY COLORS, FINISHES, TEXTURES, AND PATTERNS AS THE BASIS OF DESIGN. PRODUCTS OF AUTHORIZED EQUAL MANUFACTURERS EQUIVALENT TO COLORS, FINISHES, TEXTURES AND PATTERNS OF MANUFACTURERS LISTED THAT MEET REQUIREMENTS OF TECHNICAL SPECIFICATIONS IN EVERY RESPECT MAY BE ACCEPTABLE WITH SUBMITTAL OF A COMPLETED SUBSTITUTION REQUEST CONTAINING ALL PRODUCT DATA, TESTING AND ACTUAL SAMPLES AND UPON APPROVAL IN WRITING BY CONTRACTING OFFICER.

ABBREVIATIONS

A/E	ARCHITECT/ENGINEER	D	DAMPER - AUTOMATIC	HD	HOOD	MH	MANHOLE	SD	SUPPLY AIR DIFFUSER
AAHX	AIR TO AIR HEAT EXCHANGER	D-1	OUTDOOR AIR DAMPER	HOA	HAND/OFF/AUTOMATIC	MHP	MOTOR HORSEPOWER	SDPR	SMOKE DAMPER
AB	AIR BLENDER	D-2	RETURN AIR DAMPER	HP	HEAT PUMP	MIN	MINIMUM	SDR	SMOKE DAMPER (RETURN)
AAV	AUTOMATIC AIR VENT	D-3	RELIEF AIR DAMPER	HPD	HORSEPOWER	MM	MINUTE	SDS	SMOKE DAMPER (SUPPLY)
ACC	AIR COOLED CONDENSER	DB	DECIBELS	HPR	HIGH PRESSURE DRIP TRAP	MOV	MOTOR OPERATED VALVE	SEN	SENSIBLE HEAT
ACCH	AIR COOLED CHILLER	DB	DRY-BULB TEMPERATURE	HPS	HIGH PRESSURE RETURN (STEAM CONDENSATE)	MPS	MEDIUM PRESSURE STEAM	SF	SUPPLY FAN
ACCU	AIR-COOLED CONDENSING UNIT	DCC	DIRECT DIGITAL CONTROLS	HRC	HEAT RECOVERY COIL	MRI	MAGNETIC RESONANCE IMAGING	SH	SUPPLY AIR GRILLE
ACU	AIR CONDITIONING UNIT	DEG	DEGREE	HRP	HEAT RECOVERY DEVICE	MTD	MEAN TEMPERATURE DIFFERENCE	SI	STEAM HUMIDIFIER
ACD	AUTOMATIC CONTROL DAMPER/MODULATING	DIA	DIFFUSER	HRW	HEAT RECOVERY WHEEL	MVD	MANUAL VOLUME DAMPER	SP	STEAM HEATING COIL
ACD-TP	AUTOMATIC CONTROL DAMPER,TWO POSITION	DIW	DEIONIZED WATER	HSTAT	HUMIDISTAT	MZ	MULTI-ZONE	SP GR	SPECIFIC GRAVITY
AD	ACCESS DOOR	DP	DW POINT TEMPERATURE	HTM	HUMIDIFIER TERMINAL	NA	NOT APPLICABLE	SPD	SUPPLY PROCESS AND DISTRIBUTION
AF	AFTER FILTER	DPS	DIFFERENTIAL PRESSURE ASSEMBLY	HUM	HUMIDIFIER UNIT MOUNTED	NC	NOISE CRITERIA	SPRV	STEAM PRESSURE REDUCING VALVE
AFCV	AIR FLOW CONTROL VALVE	DQ	DIFFERENTIAL PRESSURE SENSOR	HVU	HEATING AND VENTILATING UNIT	NC	NORMALLY CLOSED	SS	STATIC PRESSURE SENSOR
AFF	ABOVE FINISHED FLOOR	DX	DIRECT EXPANSION	HW	HOT WATER	NG	NATURAL GAS	SQ FT	SQUARE FOOT (FEET)
AFMD	AIR FLOW MEASURING DEVICE	DXCC	DIRECT EXPANSION COOLING COIL	HW	HOT WATER COIL	NGFM	NATURAL GAS FLOWMETER	SR	SUPPLY AIR REGISTER
AFW	AIR FOIL WHEEL (FAN)	EA	EXHAUST AIR	HWC	HOT WATER COIL	NO	NORMALLY OPEN	SS	STAINLESS STEEL
AHU	AIR-HANDLING UNIT	EAT	ENTERING AIR TEMPERATURE	HWHC	HOT WATER HEATING COIL	NOAA	NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	SSHX	STEAM TO STEAM HEAT EXCHANGER
AMP	AMPERGE	EC	EVAPORATIVE COOLER	HWP	HEATING HOT WATER PUMP	NOM	NOMINAL	SSR	SOLID SEPARATOR
AP	ACCESS PANEL	ECC	ENGINEERING CONTROL CENTER	HWS	HEATING HOT WATER RETURN	NPLV	NON-STANDARD PART LOAD VALUE	SUH	STEAM UNIT HEATER
APD	AIR PRESSURE DROP	ECU	EVAPORATIVE CONDENSER UNIT	HWH	HOT WATER UNIT HEATER	NPSH	NET POSITIVE SUCTION HEAD	SV	STEAM PRESSURE REDUCING VALVE
ARI	AIR CONDITIONING AND REFRIGERATION INSTITUTE	EDH	ELECTRIC DUCT HEATER	HX	HEAT EXCHANGER	NTS	NOT TO SCALE	SVS	STEAM VENT SILENCER
AS	AIR SEPARATOR	EER	ENERGY EFFICIENCY RATIO	HZ	HERTZ	OA	OUTSIDE AIR	T & PCV	TEMPERATURE AND PRESSURE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	EG	EXHAUST FAN	I/O	INPUT/OUTPUT	OAG	OUTSIDE AIR GRILLE	TAB	TESTING, ADJUSTING, BALANCE
AW	AIR WASHER	EGS	EMERGENCY GAS SHUTOFF	IAQ	INDOOR AIR QUALITY	ON	OUTSIDE AIR INTAKE	TD	TEMPERATURE DIFFERENCE
AXF	AXIAL FLOW	EJ	EXPANSION JOINT	IBT	INVERTED BUCKET TRAP	OD	OUTSIDE DIAMETER	TDH	TOTAL DYNAMIC HEAD
B	BOILER	EMD	END OF MAIN DRIP (STEAM)	ICF	IN-LINE CENTRIFUGAL FAN	OFM	OPERATING ROOM	TDS	TOTAL DISSOLVED SOLIDS
BD	BUTTERFLY DAMPER	ENT	ENTERING	ID	INSIDE DIAMETER	OR	OPERATING ROOM	TP	TRANSFER GRILLE
BDD	BACKDRAFT DAMPER	ENTR	ENTERING REGISTER	IN	INCHES	P	PUMP	TR	TOP REGISTER
BDR	BASE BOARD RADIATOR	ERC	ELECTRIC REHEAT COIL	IN HG	INCHES OF MERCURY	PA	PASCAL	TSR	TOTAL STATIC PRESSURE
BFP	BACKFLOW PREVENTER	ERP	ELECTRIC RADIANT PANEL	IN WC	INCHES OF WATER COLUMN	PC	PUMPED CONDENSATE	TSTAT	TEMPERATURE STAT
BFT	BOILER PLANT FIRE TUBE	ESP	EXTERNAL STATIC PRESSURE	IN WG	INCHES WATER GAUGE	PD	PRESSURE DROP	TU	TERMINAL UNIT
BO	BOTTOM GRILLE	ET	EXPANSION TANK	IN-LB	INCH-POUND	PEF	PROPELLER (TYPE) EXHAUST FAN	TWU	THRU-WALL UNIT
BHP	BRAKE HORSEPOWER	ELH	ELECTRIC UNIT HEATER	IRH	INFRARED HEATER	PFV	PRE-FILTER	UC	UNDER CUT
BHW	BOT WATER HEATING BOILER	EWC	EVAPORATIVE WATER COOLER	IS	INSECT SCREEN	PGW	PROPYLENE GLYCOL-WATER	UC	UNIT COOLER
BHK	BOILER BLOWDOWN HEAT EXCHANGER	EWI	ENTERING WATER TEMPERATURE	IU	INLET VANES	PHC	PREHEAT COIL	UL	UNDERWRITERS LABORATORY
BW	BACKWARD INCLINED WHEEL (FAN)	EX	EXISTING	IV	INLET VANES	PPM	PARTS PER MILLION	ULV	UPBLAST UNIT VENTILATOR
BMT	BONE MARROW TRANSPLANT	F	FAHRENHEIT	kg	KILOGRAM	PPM	PRESSURE REGULATING (VALVE)	PR	PRESSURE
BR	BOTTOM REGISTER	F&T	FLOAT AND THERMOSTATIC COMBINATION FIRE SMOKE DAMPER	kgHR	KILOGRAM PER HOUR	PR	PRESSURE REGULATING VALVE	V	VALVE
BSC	BIOLOGICAL SAFETY CABINETS	FSDPR	FREE AREA	kPa	KILOPASCAL	PSI	POUNDS PER SQUARE INCH	VAF	VANE-AXIAL FAN
BT	BLOWOFF TANK	FC	FLEXIBLE CONNECTION	kW	KILOWATT	PSV	POUNDS PER SQUARE INCH - ABSOLUTE	VAV	VARIABLE AIR VOLUME
BTC	BLOWOFF TANK CONTROL VALVE	FCU	FAN COIL UNIT (4 PIPE)	kWh	KILOWATT HOUR	PSIA	POUNDS PER SQUARE INCH - ABSOLUTE	VDO	VOLUME DAMPER (MANUAL OPPOSED BLADE)
BTU	BRITISH THERMAL UNIT	FCU	FAN COIL UNIT COOLING ONLY	L	LITER	PSIG	POUNDS PER SQUARE INCH - GAGE	VFD	VARIABLE FREQUENCY DRIVE
BTUH	BRITISH THERMAL UNIT PER HOUR	FCW	FORWARD CURVED WHEEL (FAN)	L/h	LITERS PER HOUR	PS	PRIMARY SECONDARY SYSTEM	VHA	VETERANS HEALTH ADMINISTRATION
BWT	BOILER PLANT WATER TUBE	FD	FLOOR DRAIN	LS	LITERS PER SECOND	PSV	PRESSURE SAFETY VALVE	VI	VARIABLE INLET VANES
C	CENTIGRADE (CELCIUS)	FE	FIRE DAMPER	LAT	LEAVING AIR TEMPERATURE	PTAC	PACKAGED TERMINAL AIR CONDITIONER	VP	VACUUM PUMP
CC	COOLING COIL	FF	FINAL FILTER	LBSHR	POUNDS PER HOUR	R	RETURN OR EXHAUST	VPS	VARIABLE PRIMARY SYSTEM
CCD	COOLING COIL CONDENSATE DRAIN	FHX	FLUE GAS/FEEDWATER HEAT EXCHANGER	LF	LINEAR FOOT (FEET)	R/E	RETURN AIR	VR	VACUUM (STEAM CONDENSATE)
CD	CEILING DIFFUSER	FM	FLOW METER	LGT	LOW PRESSURE RETURN (STEAM CONDENSATE)	RA	REFRIGERANT AIR DRYER	VSD	VARIABLE SPEED DRIVE
CENT	CENTRICAL	FOP	FUEL OIL PUMP	LPG	LIQUID PROPANE GAS	RAF	RADIO FREQUENCY	VUH	VERTICAL UNIT HEATER
CFH	CUBIC FEET PER HOUR	FOI	FUEL OIL TANK	LPR	LOW PRESSURE RETURN (STEAM CONDENSATE)	RAT	RETURN AIR TEMPERATURE	W	WATTS
CFM	CUBIC FEET PER MINUTE	FOH	FUEL OIL HEAT EXCHANGER	LPRC	LOW PRESSURE RETURN (STEAM CONDENSATE)	RCH	REMOTE CONDENSER CHILLER	WAG	WASTE ANESTHESIA GAS
CFM	CUBIC FEET PER MINUTE	FPM	FEET PER MINUTE	LLHX	LIQUID TO LIQUID HEAT EXCHANGER	RCU	RECIPROCATING CHILLER UNIT	WC	WATER COOLED
CF	CEILING GRILLE	FT	FEET	LPS	LOW PRESSURE STEAM	RDS	ROOM DATA SHEETS	WOCH	WATER COOLED CHILLER
CG	CHEMICAL FEED PUMP	FTLB	FEET-POUND	LSD	LINEAR SLOT DIFFUSER	RE	RELIEF AIR	WCU	WATER COOLED CONDENSING UNIT
CH	CHILLER	FT	FEET	LTC	LOCAL TEMPERATURE CONTROL	RF	RETURN FAN	WCHP	WATER COOLED HEAT PUMPS
CHP	CHILLED WATER PUMP	FTR	FIRE TUBE RADIATION	LTV	LEAVING WATER TEMPERATURE	RG	RETURN GRILLE	WCPU	WATER COOLED PACKAGED UNIT
CHW	CHILLED WATER RETURN	GA	GAUGE	M	METER, SI UNIT	RH	RELATIVE HUMIDITY	WEF	WALL EXHAUST FAN
CHS	CHILLED WATER SUPPLY	GAL	GALLONS	M/s	METERS PER SECOND (OR METERS/SECOND)	RHC	REHEAT COIL	WF	WATER FILTER
CI	CARBON MONOXIDE	GH	GRAVITY HOOD	MA	MIXED AIR	RL	REFRIGERANT HOT GAS	WFCV	WATER FLOW CONTROL VALVE
CM	CUBIC METER	GPD	GALLONS PER DAY	MAT	MAKE-UP AIR UNIT	RLA	REFRIGERANT LIQUID LINE	WFM	WATER FLOWMETER
CM/S	CUBIC METER PER SECOND	GPH	GALLONS PER HOUR	MAU	MAKE-UP AIR UNIT	RO	REVERSE OSMOSIS	WFG	WATER GAGE
CO	CLEAN OUT	GP	GALLONS PER MINUTE	MAV	MANUAL AIR VENT	RPM	REVOLUTIONS PER MINUTE	WPD	WATER SIDE PRESSURE DROP
CO2	CARBON DIOXIDE	GPM	GALLONS PER MINUTE	MB	MAXIMUM	RR	RETURN REGISTER	YR	YEAR
COMP	COMPRESSOR UNIT	GS	GAS PRESSURE REGULATOR	H	HUMIDIFIER	RS	REFRIGERANT SUCTION		
COP	COEFFICIENT OF PERFORMANCE	H&CW	HOT & COLD WATER	H&CW	HOT & COLD WATER	RTU	ROOF TOP UNIT		
CP	CONDENSATE PUMP	H&C	HOUSEKEEPING AID CLOSET	HB	HOSE BIBB	SA	SUPPLY AIR		
CR	CEILING REGISTER	HC	HEATING COIL	HS	HOSE	SAD	SOUND ATTENUATING DEVICE		
CS	CONDENSATE STORAGE TANK	HD	HEAD			SAT	SUPPLY AIR TEMPERATURE		
CSG	CLEAN STEAM GENERATOR					SC	SHADING COEFFICIENT		
CT	COOLING TOWER					SCF	STANDARD CUBIC FEET PER MINUTE		
CU	CONDENSING UNIT					SCI	SPINAL CODE INJURY		
CUH	CABINET UNIT HEATER					SCR	SILICON CONTROLLED RECTIFIER		
CV	CONSTANT VOLUME					SD	SMOKE DETECTOR		
CW	COLD WATER (POTABLE)								
CWCC	CHILLED WATER COOLING COIL								
CWP	CONDENSER WATER PUMP								
CWR	CONDENSER WATER RETURN (TO COOLING TOWER)								
CWS	CONDENSER WATER SUPPLY (FROM COOLING TOWER)								

DEDUCT ALTERNATES:

ALTERNATE NO. 1:  
REMOVE METAL CANOPY AND ASSOCIATED STRUCTURE AT BOT PEDESTRIAN WALKWAYS AND THE VEHICLE ENTRY. MOUNT SIGNAGE DIRECTLY TO CONCRETE STRUCTURE.

ALTERNATE NO. 2:  
REDUCE AMOUNT OF LANDSCAPING.

ALTERNATE NO. 3:  
PROVIDE 15 FLUORESCENT LIGHT FIXTURE IN LIEU OF LED LIGHTING FIXTURE.

ALTERNATE NO. 4:  
DO NOT PROVIDE BROWN CONCRETE STAIN ON COLUMNS AT FIRST FLOOR.

ALTERNATE NO. 5:  
DO NOT PROVIDE CAST STONE AND INSTALL STUCCO IN ALL LOCATIONS WHERE CAST STONE IS SHOWN.

ALTERNATE NO. 6:  
DEDUCT THE CAB. DOORS AND ASSOCIATED EQUIPMENT FOR ELEVATOR #2. PROVIDE CONCRETE BLOCK INFILL IN PLACE OF DOORS, FINISH TO MATCH ADJACENT WALL.

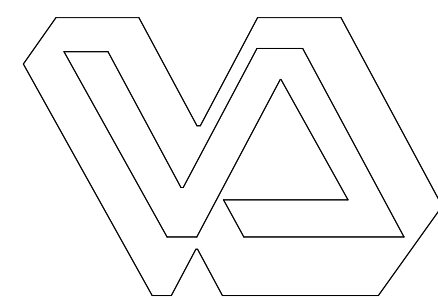
ALTERNATE NO. 7:  
DO NOT CONSTRUCT SOUTH ACCESS DRIVE. DO NOT RELOCATE TELECOMMUNICATIONS MANHOLE/ASSOCIATED WIRING. DO NOT CONSTRUCT PLAZA COURTYARD. DO NOT PROVIDE/RELOCATE SITE LIGHTING ALONG SOUTH ACCESS DRIVE. DO NOT PROVIDE ACCESS CONTROL EQUIPMENT. CONSTRUCT SIDEWALK AND PEDESTRIAN CROSSING AS INDICATED IN DRAWINGS FOR THIS ALTERNATE.

ALTERNATE NO. 8:  
REDUCE AMOUNT OF SITE SIGNAGE.

ALTERNATE NO. 9:  
PROVIDE AN ADDITIONAL 3RD FLOOR PARKING DECK. EXTEND ELEVATOR AND STAIR SHAFTS VERTICALLY BY 12 FEET.

ADDENDUM #1 FOR CONSTRUCTION

Drawing Title MECHANICAL NOTES AND LEGEND	Project Title PARKING STRUCTURE	Project Number 12.1042 Building Number Bldg-39	OFFICE OF FACILITIES MANAGEMENT
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA	Drawing Number M-001	VA Project Number 575-206
Date 3.10.14	Checked By: DJR	Drawn By: ORD	Department of Veterans Affairs



Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501

Revisions: \_\_\_\_\_ Date: \_\_\_\_\_

LOUVER SCHEDULE									
TAG	LOCATION	AREA AND/OR ROOM SERVED	SIZE	AIRFLOW	APD	MOUNTING	APPLICATION	TYPE	REMARKS
L-1	CONTROL ROOM 201A		14x14	150 CFM	0.02 in-wg	DOOR	INTAKE	STATIONARY	WITH INSECT SCREEN
L-2	ELECTRICAL 104		16x8	42 CFM	0.02 in-wg	WALL	INTAKE	BRICK VENT	WITH INSECT SCREEN
L-3	CONTROL ROOM 102B		14x14	150 CFM	0.02 in-wg		INTAKE		

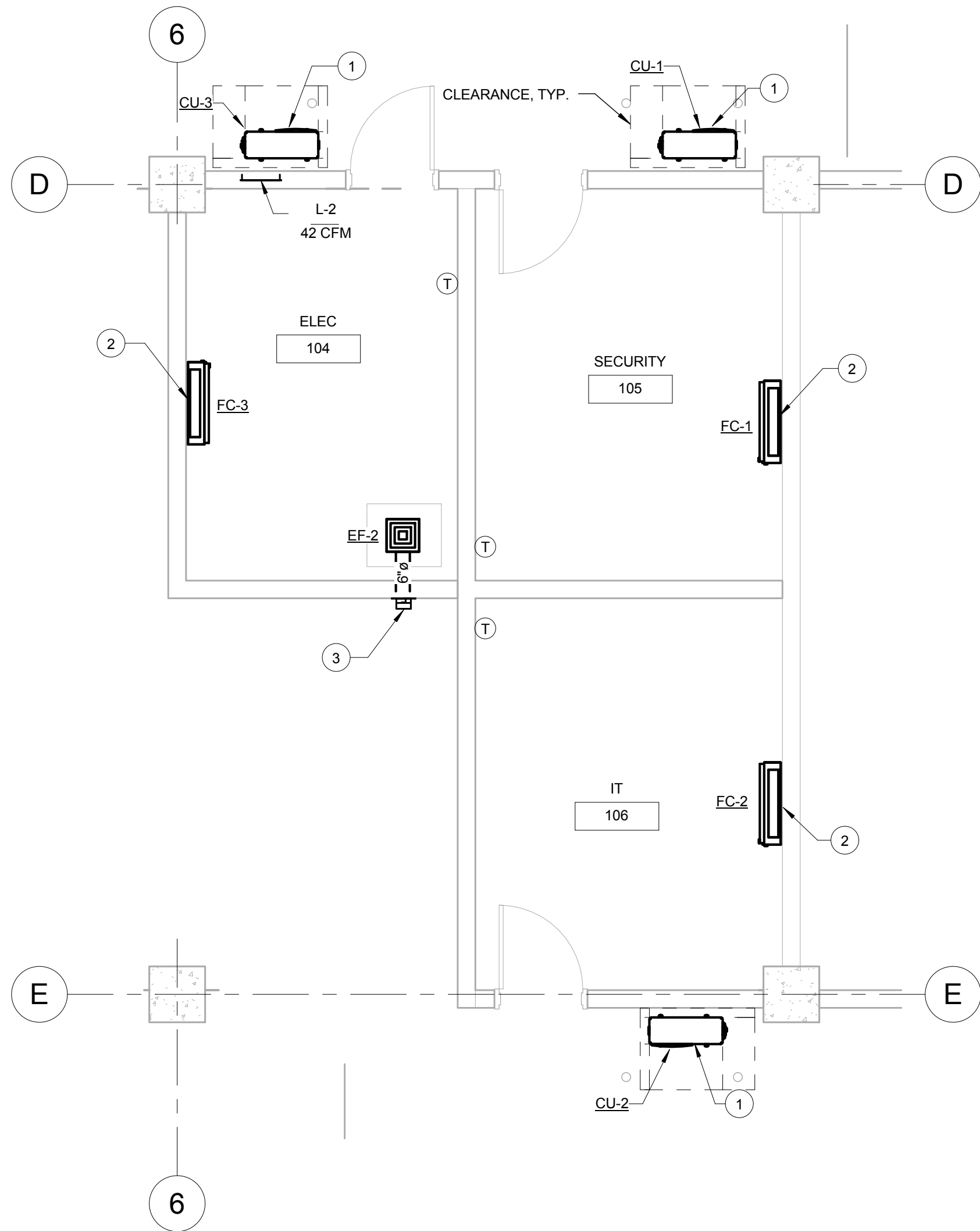
FAN SCHEDULE										
TAG	LOCATION	AIRFLOW	TSP	DRIVE	HP (W)	PHASE	VOLT	R.P.M.	SPEED CONTROL	REMARKS
EF-1	ELEVATOR SHAFT	340 CFM	0.13 in-wg	DIRECT	1/30	1	115	1300	YES	CENTRIFUGAL SIDE WALL TYPE, 1
EF-2	ELECTRICAL 104	42 CFM	0.13 in-wg	DIRECT	(38)	1	115	573	YES	CEILING TYPE WITH INTEGRAL GRILLE, 2
EF-3	JANITORS CLOSET 101A	82 CFM	0.13 in-wg	DIRECT	(29)	1	115	900	YES	CEILING TYPE WITH INTEGRAL GRILLE, 3
EF-4	STORAGE 102	49 CFM	0.13 in-wg	DIRECT	(38)	1	115	625	YES	CEILING TYPE WITH INTEGRAL GRILLE, 2
EF-5	CONTROL ROOM 201A	150 CFM	0.13 in-wg	DIRECT	(129)	1	115	1015	YES	CEILING TYPE WITH INTEGRAL GRILLE, 1
EF-6	CONTROL ROOM 102B	150 CFM	0.13 in-wg	DIRECT	(129)	1	115	1015	YES	CEILING TYPE WITH INTEGRAL GRILLE, 1
EF-7	ELEVATOR SHAFT	340 CFM	0.13 in-wg	DIRECT	1/30	1	115	1300	YES	CENTRIFUGAL SIDE WALL TYPE, 1

NOTES:  
1. WITH REVERSE TSTAT, SET TO 80° F  
2. WITH OCCUPANCY SENSOR  
3. WITH TIME DELAY SWITCH

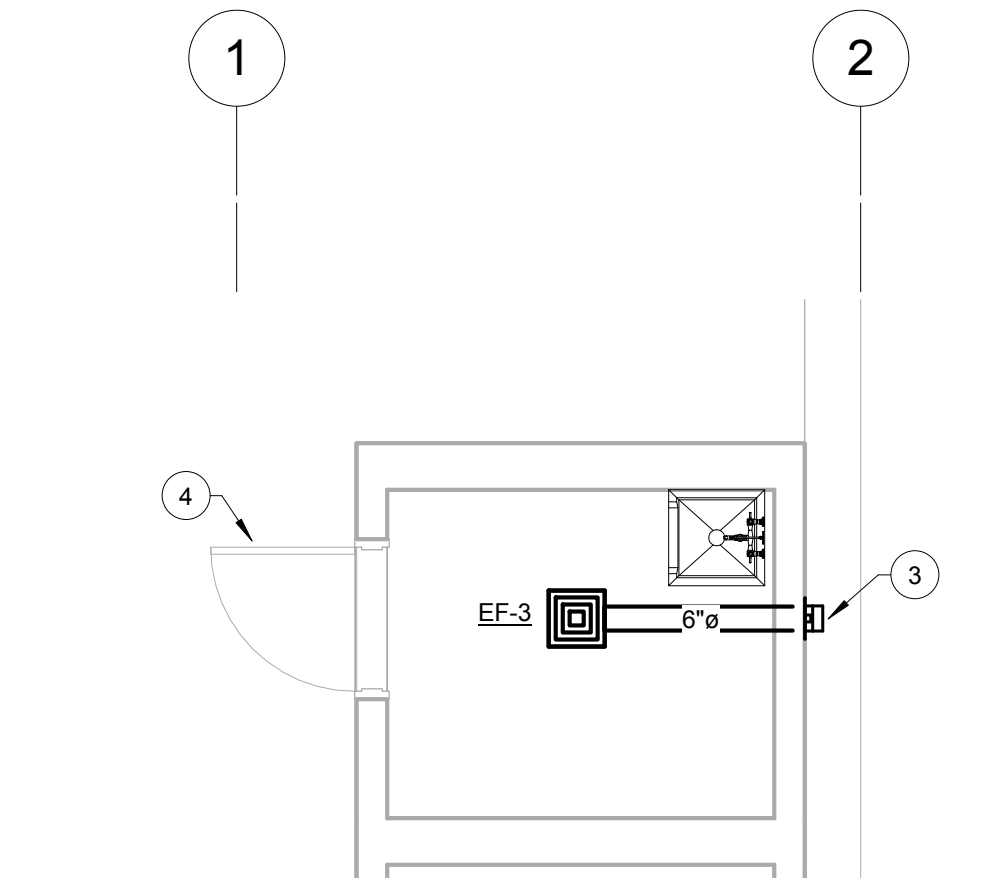
FAN COIL UNIT SCHEDULE										
TAG	LOCATION	AREA AND/OR ROOM SERVED	TYPE	CAPACITY	EAT DB	ELECTRICAL DATA	MCA	MOCP	VOLT	REMARKS
FC-1	SECURITY 105	SECURITY 105	WALL MOUNTED	12000.0 Btu/h	75 °F	208/230, 1, 60	POWER FROM OUTDOOR UNIT			
FC-2	IT 106	IT 106	WALL MOUNTED	12000.0 Btu/h	75 °F	208/230, 1, 60	POWER FROM OUTDOOR UNIT			
FC-3	ELECTRICAL 104	ELECTRICAL 104	WALL MOUNTED	12000.0 Btu/h	75 °F	208/230, 1, 60	POWER FROM OUTDOOR UNIT			

CONDENSING UNIT SCHEDULE									
TAG	LOCATION	AREA AND/OR ROOM SERVED	COOLING CAPACITY RANGE (BTU)	COMPRESSOR TYPE	POWER	MCA	MOCP	REMARKS	
CU-1	OUTSIDE SECURITY 105	SECURITY 105	6000-12000	DC INVERTER-DRIVEN TWIN ROTARY	208/230, 1, 60	13	15		
CU-2	OUTSIDE IT 106	IT 106	6000-12000	DC INVERTER-DRIVEN TWIN ROTARY	208/230, 1, 60	13	15		
CU-3	ELECTRICAL 104	ELECTRICAL 104	6000-12000	DC INVERTER-DRIVEN TWIN ROTARY	208/230, 1, 60	13	15		

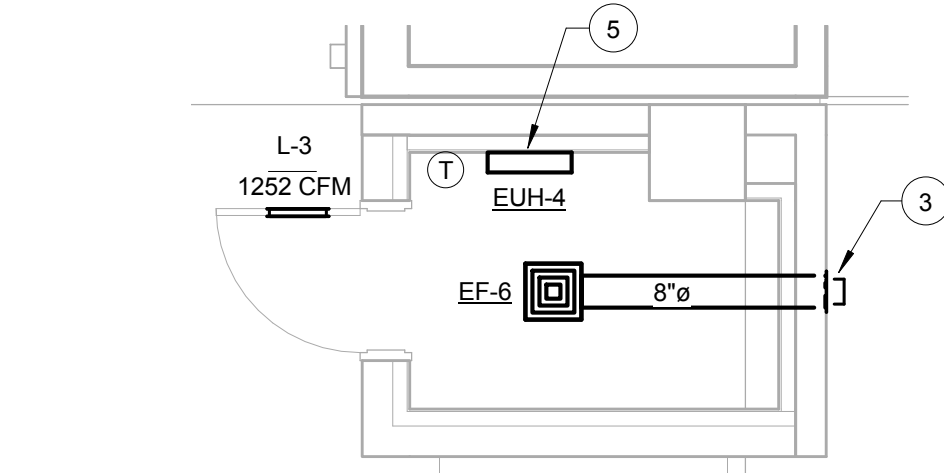
ELECTRIC UNIT HEATER SCHEDULE											
TAG	LOCATION	AREA AND/OR BLDG SERVED	TYPE	MIN. CAPACITY	POWER		VOLT	FAN MOTOR			REMARKS
					AMP	PHASE		HP	PHASE	VOLT	
EUH-1	CONTROL ROOM 201A	CONTROL ROOM 201A	ELECTRIC	1708 Btu/h	4.2	1	120	NA	NA	NA	500 W ELEMENT
EUH-2	SE ELEVATOR SHAFT	SE ELEVATOR	ELECTRIC	1708 Btu/h	4.2	1	120	NA	NA	NA	500 W ELEMENT
EUH-3	SE ELEVATOR SHAFT	SE ELEVATOR	ELECTRIC	1708 Btu/h	4.2	1	120	NA	NA	NA	500 W ELEMENT
EUH-4	CONTROL ROOM 102B	CONTROL ROOM 102B	ELECTRIC	1708 Btu/h	4.2	1	120	NA	NA	NA	500 W ELEMENT
EUH-5	WEST ELEVATOR SHAFT	WEST ELEVATOR SHAFT	ELECTRIC	1708 Btu/h	4.2	1	120	NA	NA	NA	500 W ELEMENT
EUH-6	WEST ELEVATOR SHAFT	WEST ELEVATOR SHAFT	ELECTRIC	1708 Btu/h	4.2	1	120	NA	NA	NA	500 W ELEMENT



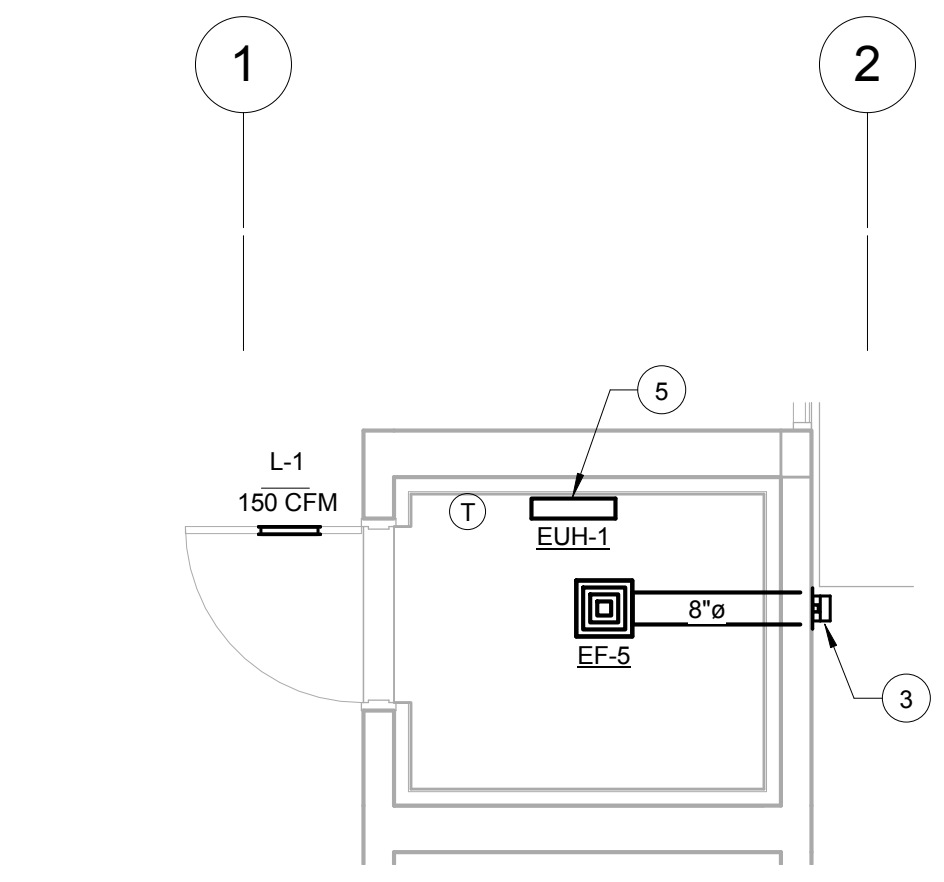
1 PARTIAL MECHANICAL PLAN  
1/4" = 1'-0"



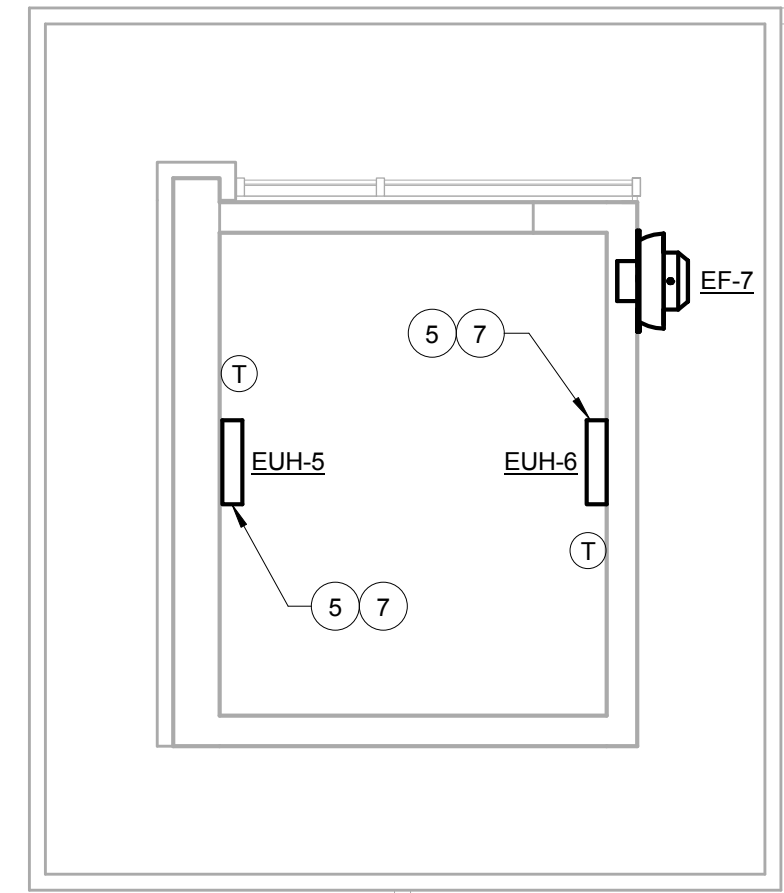
2 JANITORS CLOSET 101A MECHANICAL PLAN  
1/4" = 1'-0"



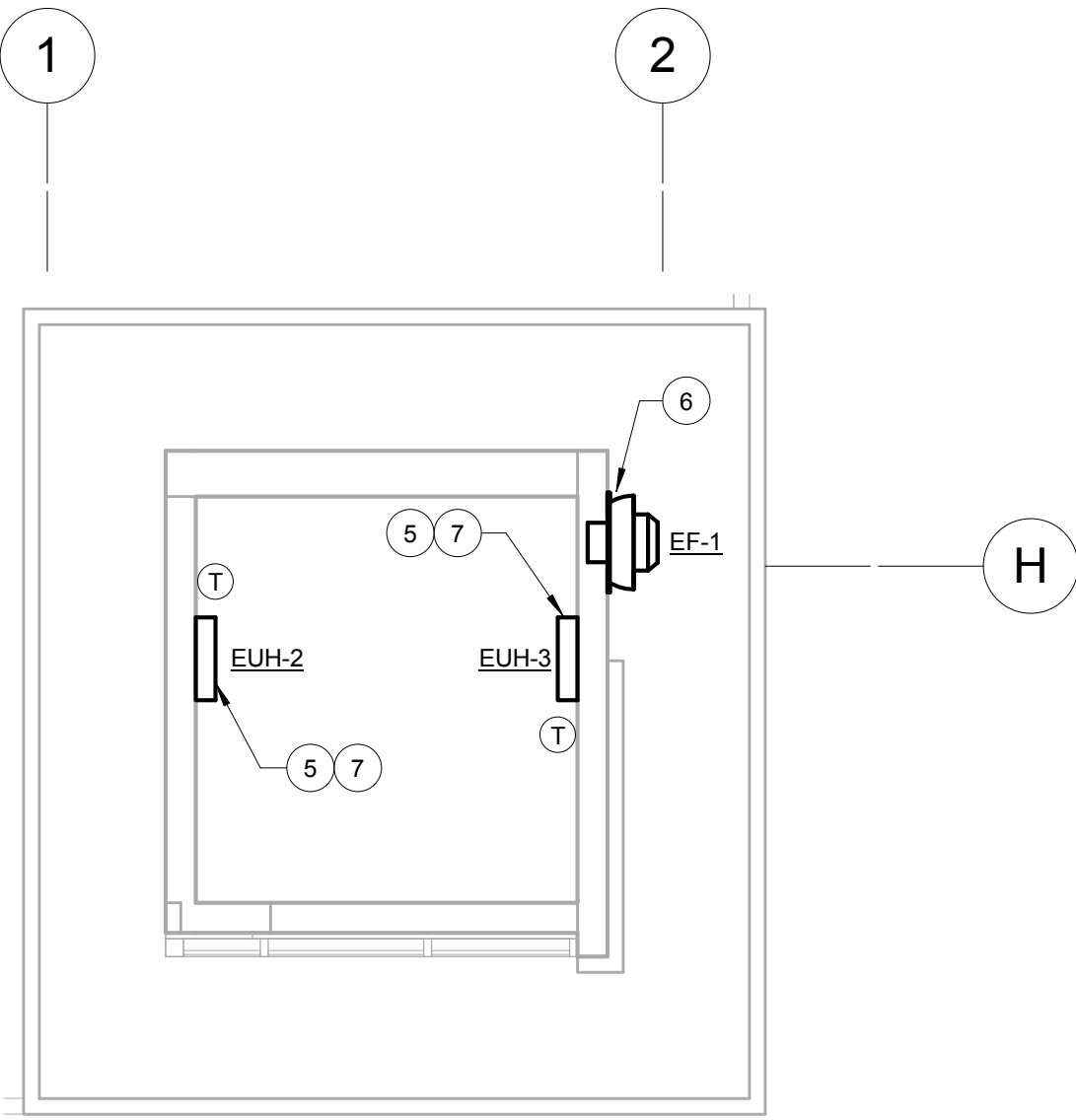
6 CONTROL ROOM 102B MECHANICAL PLAN  
1/4" = 1'-0"



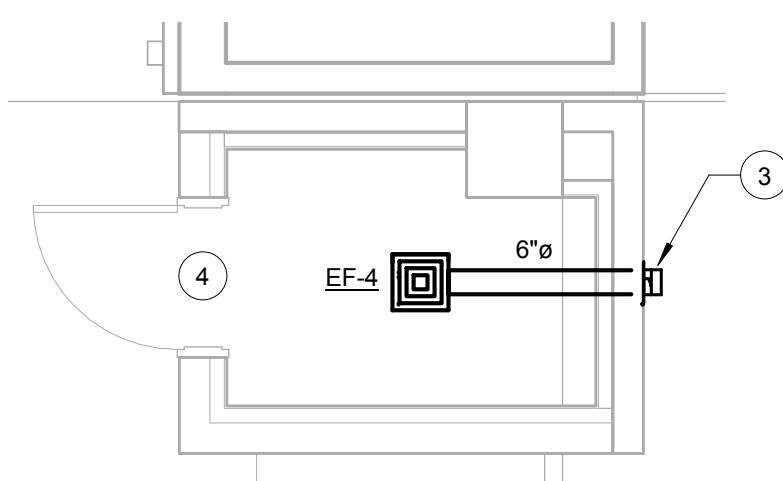
3 CONTROL ROOM 201A  
1/4" = 1'-0"



7 WEST ELEVATOR SHAFT MECHANICAL PLAN  
1/4" = 1'-0"



4 SOUTH EAST ELEVATOR SHAFT MECHANICAL PLAN  
1/4" = 1'-0"



5 STORAGE 102B MECHANICAL PLAN (ALT#6)  
1/4" = 1'-0"

KEY	NOTE
1	MOUNT CONDENSING UNIT ON 4" THICK CONCRETE PAD. PROVIDE NECESSARY CLEARANCE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2	INSTALL FAN COIL UNIT AT 6" AFF. COORDINATE EXACT LOCATION WITH EQUIPMENT IN ROOM. ROUTE CONDENSATE DRAIN SO IT TERMINATES AT 6" AFF. PROVIDE RIGID PIPE FOR WALL PENETRATION AND ELBOW DOWN ONCE OUTSIDE.
3	PROVIDE WALL CAP TERMINATION.
4	UNDERCUT DOOR 3/4" FOR AIR TRANSFER.
5	ELECTRIC UNIT HEATER SET @ 40° F FOR FREEZE PROTECTION.
6	SIDE WALL EXHAUST FAN FOR ELEVATOR SHAFT VENTILATION TO BE INSTALLED AT 16' ABOVE 2ND LEVEL FINISHED FLOOR ELEVATION.
7	ELECTRIC UNIT HEATER TO BE INSTALLED AT 14' ABOVE 2ND LEVEL FINISHED FLOOR ELEVATION.

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ELECTRICAL LEGEND

	120V DUPLEX RECEPTACLE: 18" AFF STANDARD, UNO
	120V DUPLEX RECEPTACLE: GFI 18" AFF STANDARD, UNO
	120V DUPLEX RECEPTACLE: WEATHERPROOF GFI
	120V DUPLEX RECEPTACLE EMERGENCY: 18" AFF STANDARD, UNO
	120V DUPLEX RECEPTACLE EMERGENCY: GFI 18" AFF STANDARD, UNO
	120V QUADRUPLUX RECEPTACLE: 18" AFF STANDARD, UNO
	120V QUADRUPLUX RECEPTACLE: GFI 18" AFF STANDARD, UNO
	120V QUADRUPLUX RECEPTACLE EMERGENCY: 18" AFF STANDARD, UNO
	JUNCTION BOX PURPOSE AS NOTED
	JUNCTION BOX IN WALL PURPOSE AS NOTED: 18" AFF STANDARD UNO
	DISCONNECT SWITCH NON-FUSED
	DISCONNECT SWITCH FUSED
	DATA/TELCO OUTLET: 18" AFF STANDARD UNO
	DATA OUTLET: 18" AFF STANDARD UNO
	WALL TELCO OUTLET: 48" AFF STANDARD UNO
	WALL EMERGENCY TELCO OUTLET: 48" AFF STANDARD UNO
	TELEVISION
	SINGLE POLE WALL SWITCH: 44" AFF STANDARD UNO
	TWO GANG SINGLE POLE WALL SWITCH: 44" AFF STANDARD UNO
	THREE WAY WALL SWITCH: 44" AFF STANDARD UNO
	FOUR WAY WALL SWITCH: 44" AFF STANDARD UNO
	MOTOR RATED SWITCH: 44" AFF STANDARD UNO
	KEY OPERATED WALL SWITCH: 44" AFF STANDARD UNO
	KEY OPERATED THREE WAY WALL SWITCH: 44" AFF STANDARD UNO
	OCCUPANCY SENSOR DUAL TECHNOLOGY WALL SWITCH: 44" AFF STANDARD UNO
	OCCUPANCY SENSOR DUAL TECHNOLOGY LOW VOLTAGE CEILING MOUNTED
	OCCUPANCY SENSOR DUAL TECHNOLOGY LOW VOLTAGE SWITCH PAK
	CARD READER
	HANDICAP PUSH PLATE ELECTRONIC DOOR OPENER
	SPEAKER
	BELL

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REDUCE AMOUNT OF SITE SIGNAGE.

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PROVIDE AN ADDITIONAL 3RD FLOOR PARKING DECK. EXTEND ELEVATOR AND STAIR SHAFTS VERTICALLY BY 12 FEET.

ABBREVIATIONS

1PH 1P 2/C 3/C 3PH 4/C 4W A/C UNIT A/E AAP AC ACC ADJL ADJ ADO AF AFC AFF AFG AH AHJ AIC ALT AMB OR A AMP ARCH ASC AT ATS AV BAT BC BD BFF BIL BLDG BPIP BRKR BYP C CAB CALC CAP CAT CATV CCR CCTV cd CD CF CFE CHW CHWP CRK CKT BRKR CLG CMU COAX COMM COMPT CONC CONT CONTR COORD CPT CRI CT CTV CU CU FT CUR	SINGLE-PHASE SINGLE POLE TWO-CONDUCTOR THREE-CONDUCTOR THREE-POLE FOUR-CONDUCTOR FOUR-WIRE AIR CONDITIONING UNIT ARCHITECT/ENGINEER ALARM ANNUNCIATOR PANEL ALTERNATING CURRENT OR ARMORED ACCESSIBLE ADDITIONAL ADJACENT, ADJOINING AUTOMATIC DOOR OPENER AMPERE FRAME OR AMP FUSE ABOVE FINISHED COUNTER, AUTOMATIC FREQUENCY CONTROL, OR AVAILABLE FAULT CURRENT ABOVE FINISHED FLOOR ELEV ELECTRIC OR ELECTRICAL ELEVATOR EMERGENCY MONITORING CONTROL PANEL EMER EMI EMER ENCL EPO ERF ESMT EWC EWH EX, EXIST FA FB FABL FACB FACP FC FI FIXT FLT FLUOR FLUOR FIX FT FU SW FVR G OR GND GEN GFCI GTB HID HOB HP HT HZ IESNA IMC INCAND IR IWH J-BOX KV KVA KV/AR KW KWH KWHM CURRENT	DB DC DCP DEG C DEG F DEMO DIAG DISC DISTR DISTR PL DMR SW DN DPT DPST DRSW DSW DVG EC EG EL ELEV ELEC ELEV EMCP EMER EMI EMT ENCL EPO ERF ESMT EWC EWH EX, EXIST FA FB FABL FACB FACP FC FI FIXT FLT FLUOR FLUOR FIX FT FU SW FVR G OR GND GEN GFCI GTB HID HOB HP HT HZ IESNA IMC INCAND IR IWH J-BOX KV KVA KV/AR KW KWH KWHM CURRENT	DECIBEL, OR DIRECT BURIAL DIRECT CURRENT DIMMER CONTROL PANEL DEGREES CELSIUS DEGREES FAHRENHEIT DEMOLITION DIAGRAM DISCONNECT DISTRIBUTION DISTRIBUTION PANEL DIMMER SWITCH DOWN DOUBLE POLE, DOUBLE THROW DOUBLE POLE, SINGLE THROW DOOR SWITCH DISCONNECT SWITCH DRAWING EMPTY CONDUIT EQUIPMENT GROUND ELEVATION ELECTRIC OR ELECTRICAL ELEVATOR EMERGENCY MONITORING CONTROL PANEL EMER EMI EMT ENCL EPO ERF ESMT EWC EWH EX, EXIST FA FB FABL FACB FACP FC FI FIXT FLT FLUOR FLUOR FIX FT FU SW FVR G OR GND GEN GFCI GTB HID HOB HP HT HZ IESNA IMC INCAND IR IWH J-BOX KV KVA KV/AR KW KWH KWHM CURRENT	LED LF LM LP LPS LRA LTOP LT LTG LTG PNL LTNG LV MATV MAX MC MCA MCB MCC MDF MECH MG MH MIN MOCB MLO MT MTD MTS MTS MV MVA MW NA NEC NEMA NEUT OR N NFPA NIC NL NO NS NTS OC OD OL P PA PB PBU PCB PEC PED PEND PF PH PNL POD PT PTRV PVC PWR RCP REC RECEPT RGS RM RMS REQD SCC SES SD SF	LIGHT EMITTING DIODE LINEAR FEET (FOOT) LUMEN LIGHT POLE LOW PRESSURE SODIUM LOCKED ROTAR AMPS LOCAL TEMPERATURE CONTROL PANEL LIGHT LIGHTING LIGHTING PANEL LIGHTNING LOW VOLTAGE MASTER ANTENNA TELEVISION SYSTEM MAXIMUM METAL-CLAD MINIMUM CIRCUIT AMPS MINIMUM CIRCUIT BREAKER MOTOR CIRCUT BREAKER MAIN DISTRIBUTION PANEL MECHANICAL MOTOR GENERATOR MINHOLE MINIMUM MAXIMUM OVERCURRENT PROTECTION MAIN LUGS ONLY MOUNT MOUNTED MOUNTING MANUAL TRANSFER SWITCH MEDIUM VOLTAGE MEGAVOLT-AMPERE MEGAWATT MICROWAVE NOT APPLICABLE NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL NATIONAL FIRE PROTECTION ASSOCIATION NOT IN CONTRACT NIGHT LIGHT NORMALLY OPEN NO SCALE NOT TO SCALE ON CENTER OUTSIDE DIAMETER OVERLOAD POLE PUBLIC ADDRESS PANELBOARD, PULL BOX, OR PUSHBUTTON PREFABRICATED BEDSIDE PATIENT UNIT POLYCHLORINATED BIPHENYL PHOTOELECTRIC CELL PEDESTAL PENDANT POWER FACTOR PHASE PANEL POWER OPERATED DAMPER POTENTIAL TRANSFORMER POWER TYPE ROOF VENTILATION POLYVINYL CHLORIDE (PLASTIC) POWER REFLECTED CEILING PLAN RECESSED RECEPTACLE RIGID GALVANIZED STEEL ROOM ROOT MEAN SQUARE REQUIRED SHORT CIRCUIT CAPACITY SERVICE ENTRANCE SECTION SMOKE DETECTOR SQUARE FOOT (FEET)	SHT SI SPEC SPST SURF SW SWBD SWGR TC TEL TP TPS TTB TYP UFD UGND UL UNON UPS UTIL V VA VAR VFD VOLT W WH WP XFER XFMR	SHEET INTERNATIONAL SYSTEM OF UNITS SPECIFICATION SINGLE POLE, SINGLE THROW SURFACE SWITCH SWITCHBOARD SWITCHGEAR TIMECLOCK TELEPHONE TWISTED PAIR TWISTED PAIR SHIELDED TELEPHONE TERMINAL BOARD TELEVISION TYPICAL UNDERFLOOR DUCT UNDERGROUND UNDERWRITERS LABORATORY UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY UTILITY VOLT VOLT AMPERE VOLT AMPERE REACTIVE VARIABLE FREQUENCY DRIVE VOLTAGE WATT WATER HEATER WEATHERPROOF TRANSFER TRANSFORMER
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GENERAL NOTES

- ALL ELECTRICAL DEVICES, FIXTURES, EQUIPMENT AND FEEDERS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE MANUFACTURER'S RECOMMENDED PROCEDURES, ALL APPLICABLE LOCAL AND STATE CODES, AMERICAN DISABILITIES ACT AND WITH THE 2011 NATIONAL ELECTRICAL CODE.
- PROVIDE ADDITIONAL SUPPORT FOR DEVICES, FIXTURES, EQUIPMENT AND FEEDERS WHERE THE BUILDING CONSTRUCTION IS NOT SUITABLE FOR DIRECT MOUNTING.
- FIRESTOP, DRAFTSTOP, SMOKESTOP AND/OR PROTECT THE ANNULAR SPACE AROUND ALL PENETRATIONS THROUGH WALLS, PARTITIONS, FLOORS, CEILING, AND ROOFS IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, UL LISTING REQUIREMENT AND THE APPLICABLE BUILDING CODES.
- VERIFY CEILING SYSTEMS AND PROVIDE MOUNTING ACCESSORIES, TRIMS AND ALL REQUIRED MOUNTING HARDWARE TO SUIT THE PARTICULAR INSTALLATION.
- PROTECT EXISTING UNDERGROUND AND BUILDING INTERIOR UTILITIES DURING CONSTRUCTION.
- BRANCH CIRCUIT CONDUCTORS SHALL BE 12 AWG COPPER MINIMUM.
- COORDINATE ANY AND ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION SO AS TO AVOID CONFLICT DURING CONSTRUCTION.
- ALL PANELS SHALL HAVE TYPED, COMPLETED DIRECTORIES INDICATING EQUIPMENT SERVED AND ROOM NUMBER (AS INDICATED ON FINAL BUILDING ROOM SIGNAGE) OF EQUIPMENT LOCATION, OR SPARE, OR SPACE.
- MANUFACTURER'S NAME AND MODEL NUMBER ARE FOR BASIS OF DESIGN PURPOSES, TO INDICATE A QUALITY STANDARD AND ARE NOT INTENDED TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. PRODUCTS DEEMED EQUAL AND APPROVED BY THE DESIGNER WILL BE ACCEPTED. ALL PRODUCTS MUST COMPLY WITH "BUY AMERICAN ACT".
- ALL FEEDERS AND CIRCUITRY SHALL BE TORQUED PER THE PANEL BREAKER, AND/OR PARTICULAR EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
- CIRCUITRY TO SWITCHES, RECEPTACLES, AND ALL OTHER DEVICES SHALL BE TERMINATED ON THE DEVICE'S SCREW TERMINALS.
- MOUNTING HEIGHTS INDICATED ARE TO CENTER OF DEVICE, OUTLET, FIXTURE, OR EQUIPMENT UNLESS NOTED OTHERWISE.
- ALL WIRE TERMINATIONS SHALL BE RATED FOR 75 DEGREE C.
- ALL CONDUCTORS SHALL HAVE THHN/THWN INSULATION, UNLESS OTHERWISE NOTED.
- ALL CONDUIT SHALL BE RGS, EMT, OR LFMC UNLESS OTHERWISE NOTED. FMC CONDUIT MAY BE USED ON VIBRATING EQUIPMENT.
- ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABEL LISTED BY AN APPROVED THIRD PARTY TESTING AGENCY.
- MANUFACTURER'S TRADE NAMES AND NUMBERS USED HEREIN ARE ONLY TO IDENTIFY COLORS, FINISHED, TEXTURES AND PATTERNS AS THE BASIS OF THE DESIGN. PRODUCTS OF AUTHORIZED EQUAL MANUFACTURER'S EQUIVALENT TO COLORS, FINISHES, TEXTURES AND PATTERNS OF MANUFACTURERS LISTED THAT MEET REQUIREMENTS OF TECHNICAL SPECIFICATIONS IN EVERY RESPECT MAY BE ACCEPTABLE WITH SUBMITTAL OF A COMPLETED SUBSTITUTION REQUEST CONTAINING ALL PRODUCT DATA, TESTING AND ACTUAL SAMPLES AND UPON APPROVAL IN WRITING BY CONTRACTING OFFICER.

LIGHT FIXTURE SCHEDULE					
SYMBOL	LABEL	TYPE OF LAMP	WATTS/ FIXTURE	VOLTAGE	DESCRIPTION
	A	LED 4100K	59	277	4' ROUGH SURFACE LINEAR LED STRIP LIGHT.
	B2	LED 4000K	16	277	EXTERIOR 8' X 6-3/4" X 7-1/8" SURFACE MOUNTED LED SURFACE MOUNTED. SUITABLE FOR WET LOCATIONS.
	C	LED	20	120	WALL MOUNTED LED VAPORPROOF SECURITY LIGHT WITH PROTECTIVE CAGE.
	EXA	LED	3	277	SINGLE-FACE LED EMERGENCY EXIT SIGN WITH DIRECTIONAL INDICATOR. WITH BATTERY BACK UP.
	EXB	LED	4	277	DOUBLE FACE LED EMERGENCY EXIT SIGN WITH DIRECTIONAL INDICATOR. WITH BATTERY BACK UP.
	G1	LED 4000K 80 CRI	55	277	PENDANT MOUNT ROUND LED TYPE V WIDE PARKING GARAGE LIGHT WITH TEXTURED POLYCARBONATE LENS MOUNTED AT 8'-0" AFF TYPICAL. SUITABLE FOR DAMP LOCATIONS.
	G1 ALT-3	TWO 54W T5HO 4000K	121	277	4' 2 LAMP FLUORESCENT PARKING GARAGE LUMINAIRE WITH SINGLE PROGRAM START BALLAST, 1.0 BALLAST FACTOR, SUITABLE FOR DAMP LOCATIONS.
	GR	LED 4000K	21	277	EXTERIOR ROUND FLUSH LENS SHALLOW ADJUSTABLE INGRADE LED. SUITABLE FOR WET LOCATIONS.
	M	LED 4000K	9	277	EXTERIOR ROUND FLUSH LENS SHALLOW TILT ANGLE ADJUSTABLE INGRADE LED. SUITABLE FOR WET LOCATIONS.
	P	LED 4000K	70	277	48" X 2-5/8" X 3-3/8" INTERIOR LINEAR PENDANT MOUNTED ARCHITECTURAL LED. PENDANT LENGTH TO BE COORDINATED IN THE FIELD. SUITABLE FOR DAMP LOCATIONS.
	R	LED 4000K	45	277	EXTERIOR RECESSED 6" LED DOWNLIGHT SUITABLE FOR WET LOCATIONS.
	PP1	160 LED 4000K	265	277	EXTERIOR POLE MOUNTED RETANGULAR LED TYPE IV MEDIUM AREA LIGHT WITH 525mA ELECTRONIC DRIVER AND 20' POLE.
	PP1 ALT-3	400W P8HM 4000K	456	277	EXTERIOR ARCHITECTURAL POLE MOUNTED RECTANGULAR PULSE START METAL HALIDE TYPE IV WIDE, FORWARD THROW FULL CUT OFF AREA LIGHT WITH 20' POLE.
	W1	LED	40	277	EXTERIOR WALL MOUNTED BI-DIRECTIONAL LED. SUITABLE FOR WET LOCATIONS.
	W2	LED 4000K	7	277	IMPACT RESISTANT UNSHIELDED WALL MOUNTED 6'X8'X8" CUBE LED MOUNTED AT 6'-0" AFF. SUITABLE FOR WET LOCATIONS.
	WP	LED 4000K	80	277	EXTERIOR WALL MOUNTED LED TYPE III DOWN LIGHT. SUITABLE FOR WET LOCATIONS.
	EMR	LED	100	MVOLT	2 LAMP, WET LOCATION, -40°F TO 131°F TEMPERATURE RATING, 12V, POLE, COLUMN, WALL, I-BEAM, OR UNISTRUT MOUNTING. MUST PROVIDE 90 MINUTES MINIMUM ILLUMINATION FOR RATED WATTAGE UPON LOSS OF AC POWER. INSTALL BETWEEN 12'-16" AFF.

- NOTES:
- EM - EMERGENCY LIGHT WITH BATTERY BACK UP.  
NL - UN-SWITCHED NIGHT LIGHT.
  - CONTRACTOR SHALL PROVIDE LIGHT FIXTURE SHIELDS AS REQUIRED TO PREVENT LIGHT TRESPASS OVER PROPERTY
  - VERIFY ALL LIGHT FIXTURE MOUNTING TYPES AND COLORS WITH ARCHITECT.

BUILDING CODE DATA

ELECTRICAL SYSTEM AND EQUIPMENT		ENERGY COST BUDGET
METHOD OF COMPLIANCE:	<input checked="" type="checkbox"/> PRESCRIPTIVE	PERFORMANCE
LIGHTING SCHEDULE		
LAMP TYPE REQUIRED IN FIXTURE: REFER TO LIGHT FIXTURE SCHEDULE		
NUMBER OF LAMPS IN FIXTURE: REFER TO LIGHT FIXTURE SCHEDULE		
BALLAST TYPE USED IN THE FIXTURE: REFER TO LIGHT FIXTURE SCHEDULE		
NUMBER OF BALLASTS IN FIXTURE: REFER TO LIGHT FIXTURE SCHEDULE		
TOTAL WATTAGE PER FIXTURE: REFER TO LIGHT FIXTURE SCHEDULE		
TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED: 13,383 W. SPECIFIED VS. 49,632 W. ALLOWED		
TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED: 2,830 W. SPECIFIED VS. 4,216 W. ALLOWED		
EQUIPMENT SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS)		
MOTOR HORSEPOWER: 80		
NUMBER OF PHASES: N/A		
MINIMUM EFFICIENCY: N/A		
MOTOR TYPE: N/A		
NUMBER OF POLES: N/A		
DESIGNER STATEMENT:		
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF ANSI/ASHRAE/IESNA STANDARD 90.1-2007.		
NAME:	JOHN MICHAEL BEEZLEY	
TITLE:	PROFESSIONAL ENGINEER	



PROJECT LEADER/ARCHITECT:

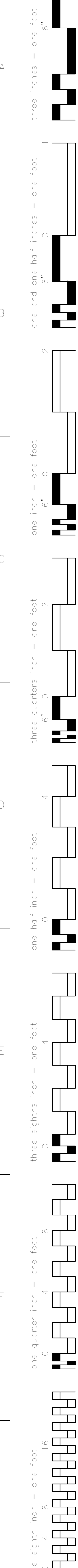
**GUIDON DESIGN**

2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
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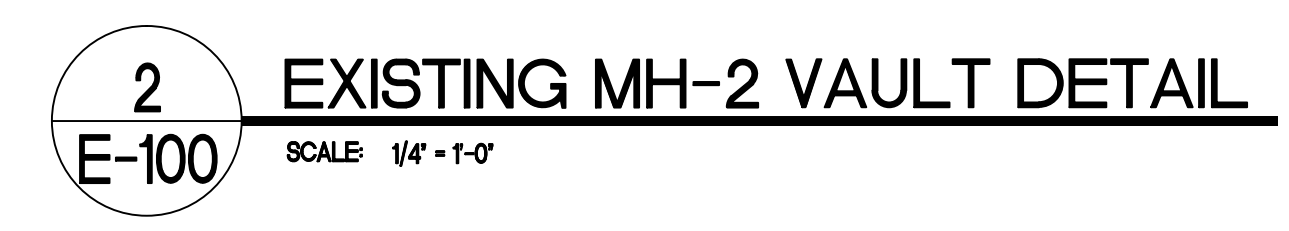
SUSTAINABLE ARCHITECTURE + ENGINEERING

FINAL CONSTRUCTION DOCUMENTS					
Drawing Title ELECTRICAL NOTES AND LEGENDS	Project Title PARKING STRUCTURE		Project Number 12.1042	OFFICE OF FACILITIES MANAGEMENT	
			Building Number Bldg-39		
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA		Drawing Number E-001	VA Project Number 575-206	
	Date 3.10.14	Checked By: JMB	Drawn By: KLC	Department of Veterans Affairs	





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| E |  |
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| E |  |
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"IT'S THE LAW"

**811**

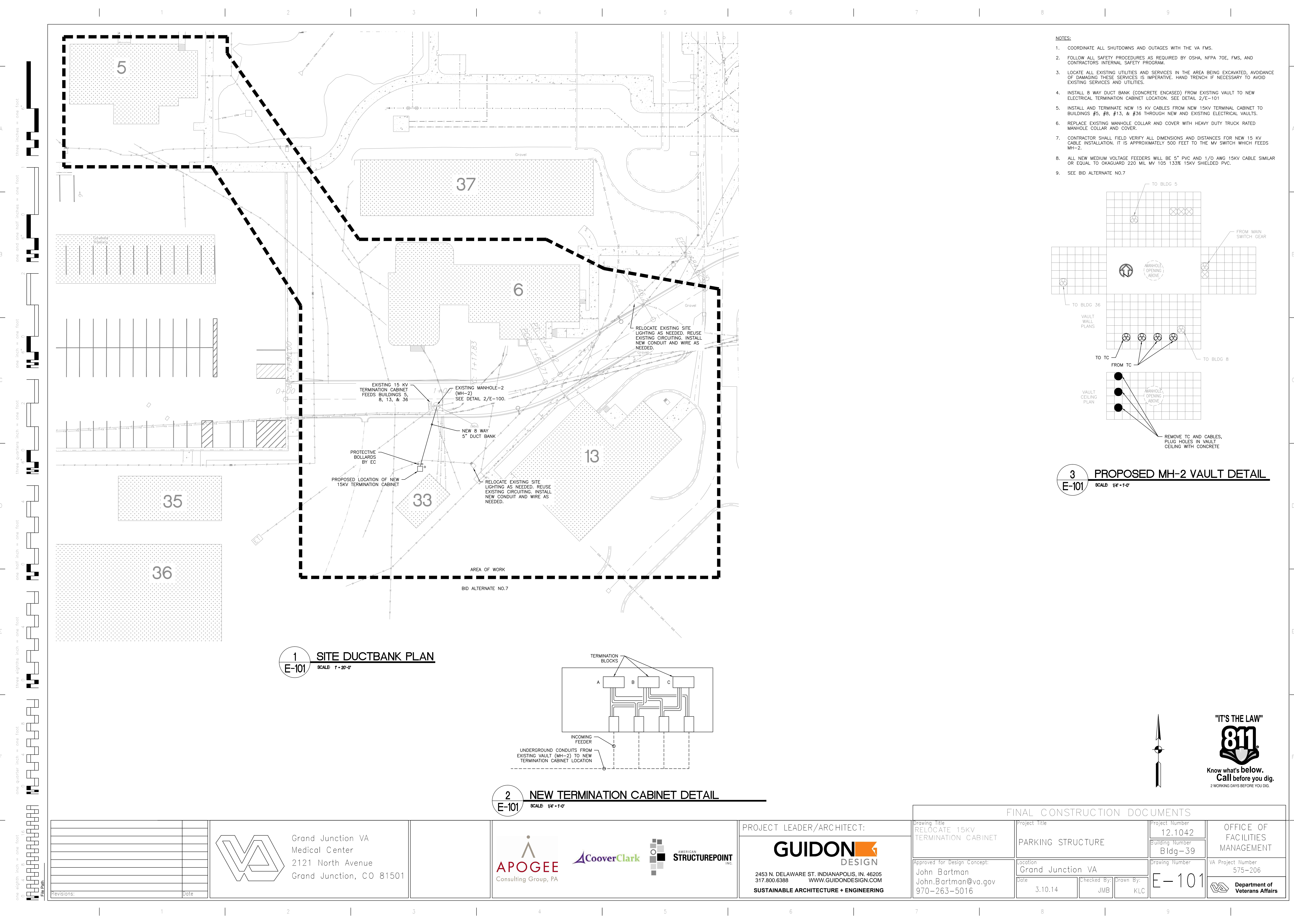
**Know what's below.  
Call before you dig.**

2 WORKING DAYS BEFORE YOU DIG.

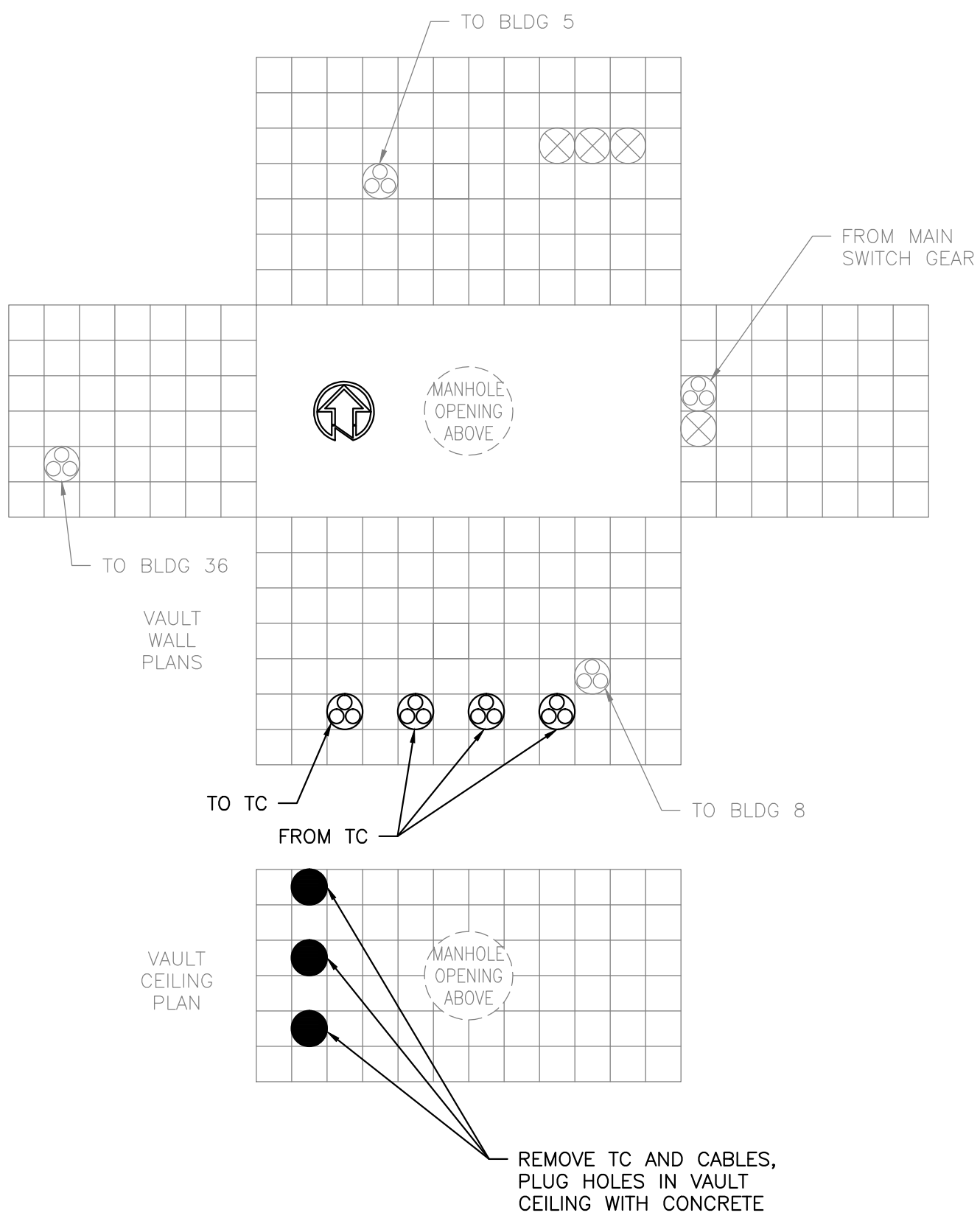


FINAL CONSTRUCTION DOCUMENTS				
Drawing Title EXISTING SITE ELECTRICAL PLAN	Project Title  PARKING STRUCTURE		Project Number 12.1042	OFFICE OF FACILITIES MANAGEMENT
			Building Number Bldg-39	
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA		Drawing Number E-100	VA Project Number 575-206
	Date 3.10.14	Checked By: JMB	Drawn By: KLC	 <b>Veterans Affairs</b>



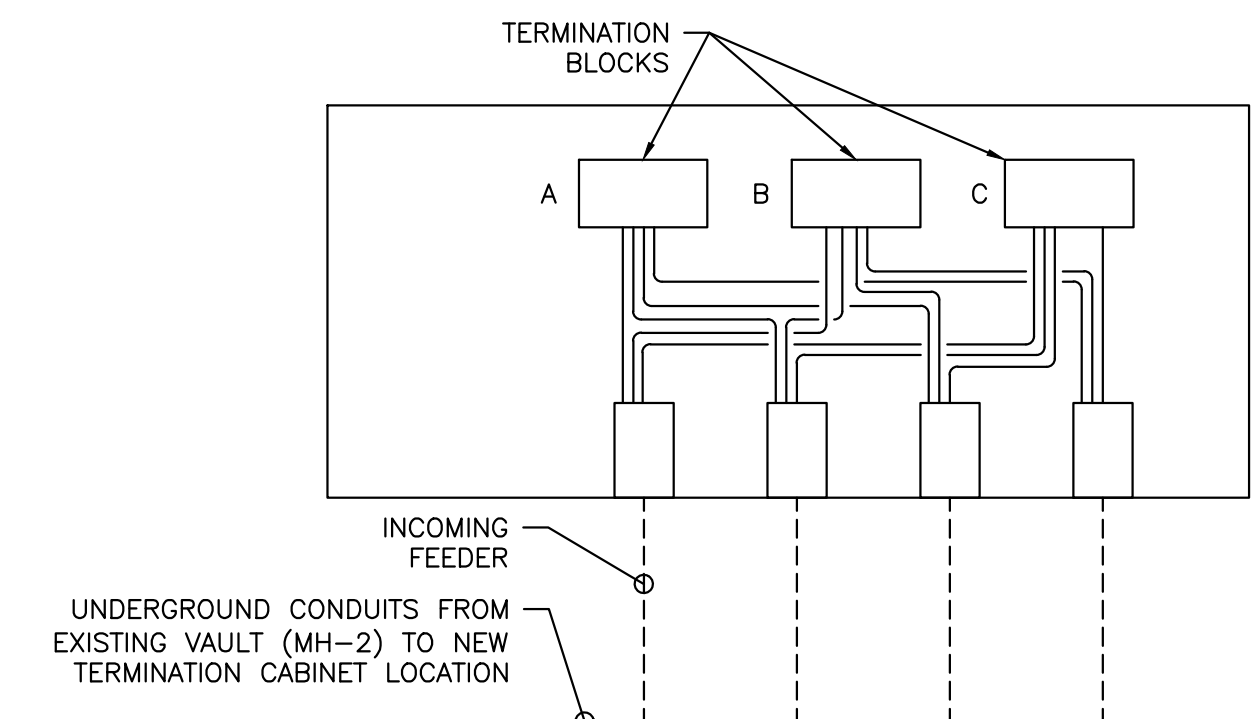


- NOTES:
- COORDINATE ALL SHUTDOWNS AND OUTAGES WITH THE VA FMS.
  - FOLLOW ALL SAFETY PROCEDURES AS REQUIRED BY OSHA, NFPA 70E, FMS, AND CONTRACTORS INTERNAL SAFETY PROGRAM.
  - LOCATE ALL EXISTING UTILITIES AND SERVICES IN THE AREA BEING EXCAVATED, AVOIDANCE OF DAMAGING THESE SERVICES IS IMPERATIVE. HAND TRENCH IF NECESSARY TO AVOID EXISTING SERVICES AND UTILITIES.
  - INSTALL 8 WAY DUCT BANK (CONCRETE ENCASED) FROM EXISTING VAULT TO NEW ELECTRICAL TERMINATION CABINET LOCATION. SEE DETAIL 2/E-101
  - INSTALL AND TERMINATE NEW 15 KV CABLES FROM NEW 15KV TERMINAL CABINET TO BUILDINGS #5, #13, & #36 THROUGH NEW AND EXISTING ELECTRICAL VAULTS.
  - REPLACE EXISTING MANHOLE COLLAR AND COVER WITH HEAVY DUTY TRUCK RATED MANHOLE COLLAR AND COVER.
  - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND DISTANCES FOR NEW 15 KV CABLE INSTALLATION. IT IS APPROXIMATELY 500 FEET TO THE MV SWITCH WHICH FEEDS MH-2.
  - ALL NEW MEDIUM VOLTAGE FEEDERS WILL BE 5" PVC AND 1/0 AWG 15KV CABLE SIMILAR OR EQUAL TO OKAGUARD 220 MIL MV 105 133% 15KV SHIELDED PVC.
  - SEE BID ALTERNATE NO.7



3 PROPOSED MH-2 VAULT DETAIL  
E-101 SCALE 1/4" = 1'-0"

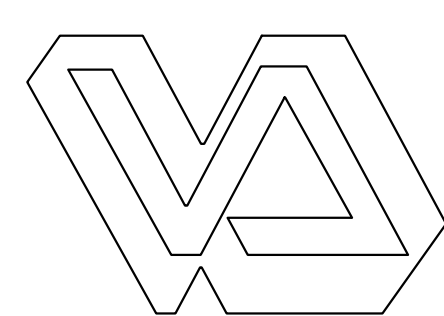
1 SITE DUCTBANK PLAN  
E-101 SCALE 1" = 20'-0"



2 NEW TERMINATION CABINET DETAIL  
E-101 SCALE 1/4" = 1'-0"



Revisions:	Date

 Grand Junction VA Medical Center  
2121 North Avenue  
Grand Junction, CO 81501

 APOGEE Consulting Group, PA


 CooverClark

 AMERICAN STRUCTUREPOINT INC.

PROJECT LEADER/ARCHITECT:

**GUIDON DESIGN**

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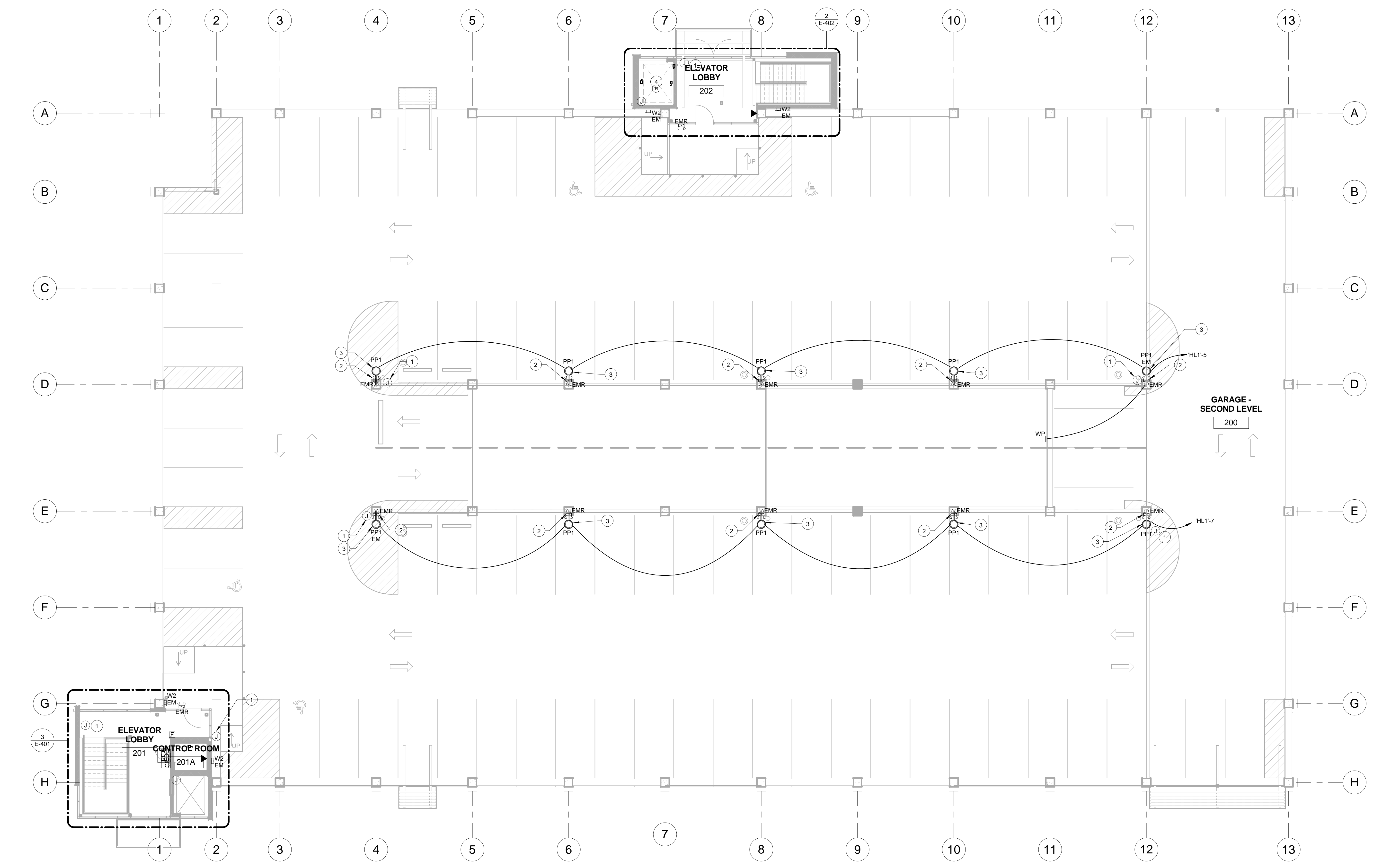
FINAL CONSTRUCTION DOCUMENTS				
Drawing Title RELOCATE 15KV TERMINATION CABINET	Project Title  PARKING STRUCTURE	Project Number 12.1042	OFFICE OF FACILITIES MANAGEMENT	
		Building Number Bldg-39		
Approved for Design Concept:  John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA	Drawing Number	VA Project Number 575-206	
	Date 3.10.14	Checked By: JMB	Drawn By: KLC	 <b>Department of Veterans Affairs</b>
	E-101			











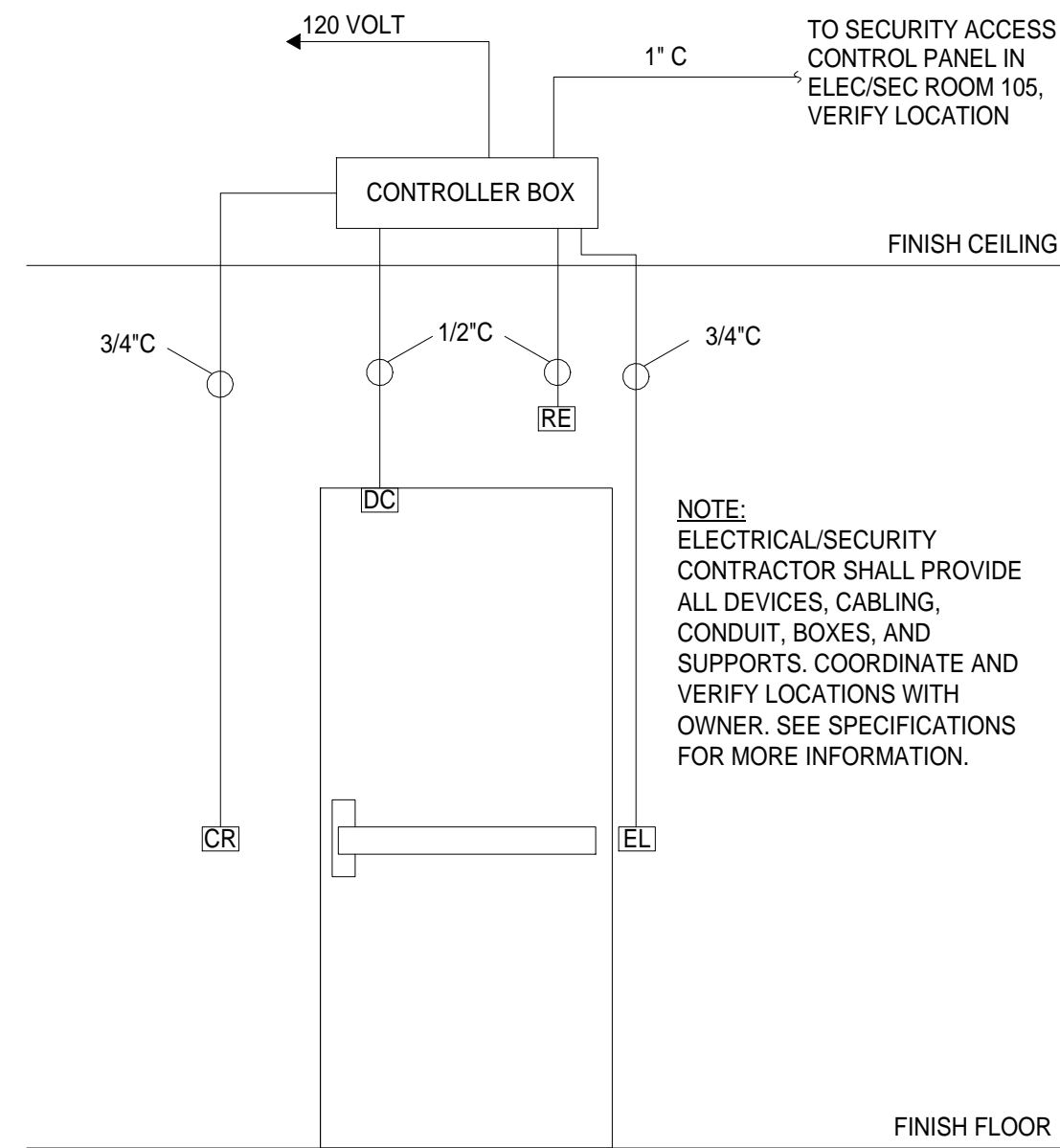
- KEYED NOTES**
- 1 JUNCTION BOX WITH 1" CONDUIT AND PULL STRING TO SECURITY ROOM 105 FOR CAMERAS, CAMERAS, WIRING AND TERMINATORS BY SECURITY CONTRACTOR. EACH CONDUIT IS A SEPARATE RUN TO ROOM 105
  - 2 EMR MOUNTED ON POLE
  - 3 SEE BID ALTERNATE NO.3
  - 4 SEE BID ALTERNATE NO.6

- GENERAL NOTES:**
- A. ALL RECEPTACLE CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
  - B. ALL LIGHTING CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
  - C. SEE E-601 FOR EQUIPMENT CONDUCTOR SCHEDULE.
  - D. ALL EMERGENCY NIGHTLIGHTS (EM NL), EXIT SIGNS AND EMERGENCY EGRESS LIGHTING SHALL BE CIRCUITED FROM LIGHTING CIRCUIT SERVING THE SAME AREA BUT AHEAD OF ANY SWITCHING AND SHALL BE CONNECTED TO EMERGENCY LIGHTING INVERTER POWER SUPPLY.
  - E. ALL EMERGENCY LIGHTING (EM) SHALL BE CIRCUITED FROM LIGHTING CIRCUIT SHOWN AND SHALL BE CONNECTED TO EMERGENCY LIGHTING INVERTER POWER SUPPLY.
  - F. A CORRIDOR, ROOM OR ADJACENT SPACE WITH TWO OR MORE VISIBLE NOTIFICATION APPLIANCES WITHIN THE FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION.
  - G. ALL EXTERIOR BUILDING MOUNTED WALL PACKS SHALL BE CIRCUITED FROM HL1-10.

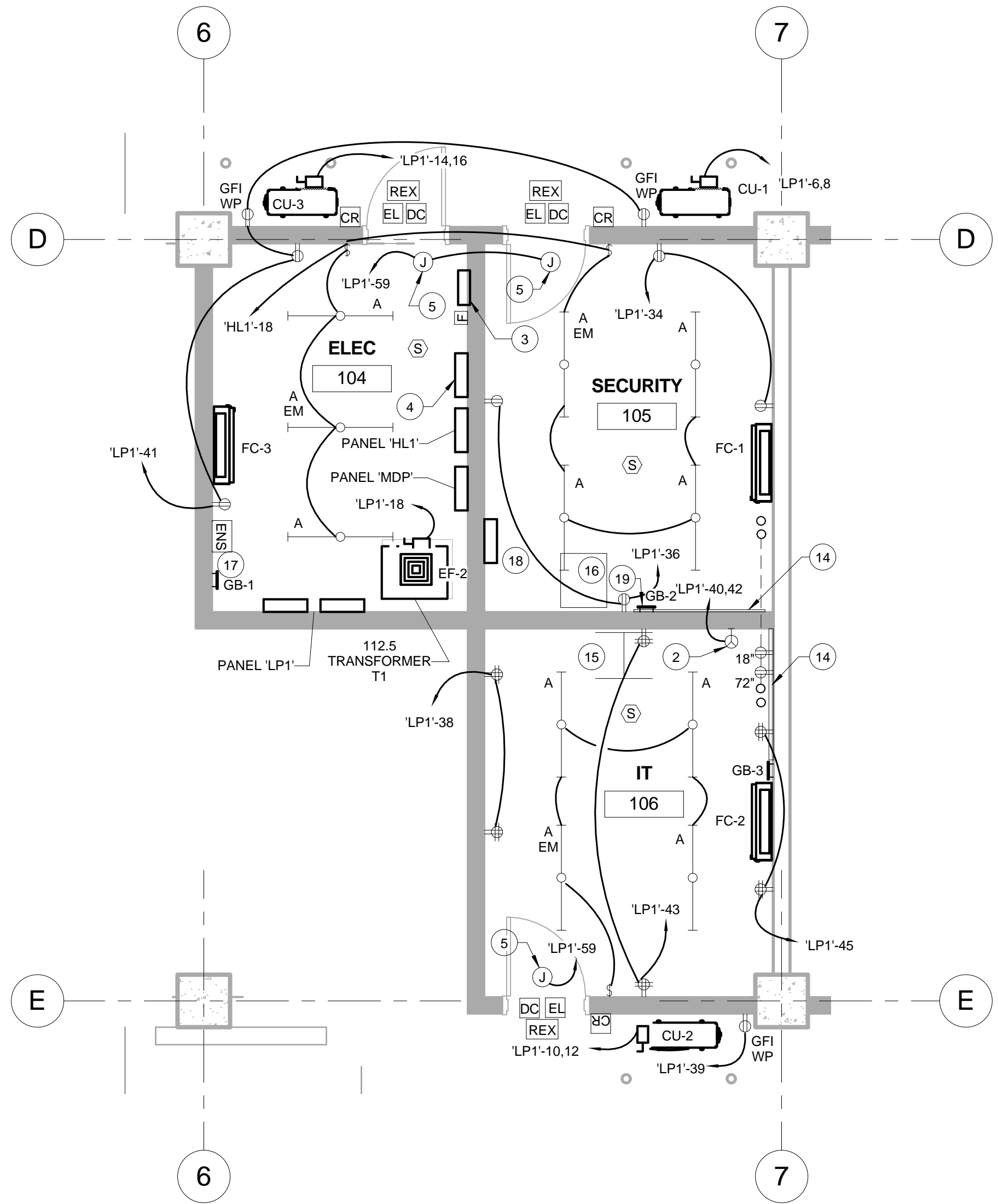
1 2ND LEVEL ELECTRICAL PLAN  
3/32" = 1'-0"

<div></div> <div>Grand Junction VA Medical Center 2121 North Avenue Grand Junction, CO 81501</div>		<div>MEP: </div> <div>ARCHITECTURE: </div> <div>TRAFFIC/STRUCTURE: </div>		<div>PROJECT LEADER/ARCHITECT: </div> <div>2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205 317.800.6388 WWW.GUIDONDESIGN.COM SUSTAINABLE ARCHITECTURE + ENGINEERING</div>		<div>FINAL CONSTRUCTION DOCUMENTS</div> <table><tr><td>Drawing Title 2ND LEVEL ELECTRICAL PLAN</td><td>Project Title PARKING STRUCTURE</td><td>Project Number 12.1042 Building Number Bldg-39</td><td>OFFICE OF FACILITIES MANAGEMENT</td></tr><tr><td>Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016</td><td>Location Grand Junction VA</td><td>Drawing Number E-202</td><td>VA Project Number 575-206 </td></tr><tr><td>Date 3.10.14</td><td>Checked By: JMB</td><td>Drawn By: KLC</td><td></td></tr></table>				Drawing Title 2ND LEVEL ELECTRICAL PLAN	Project Title PARKING STRUCTURE	Project Number 12.1042 Building Number Bldg-39	OFFICE OF FACILITIES MANAGEMENT	Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA	Drawing Number E-202	VA Project Number 575-206 	Date 3.10.14	Checked By: JMB	Drawn By: KLC	
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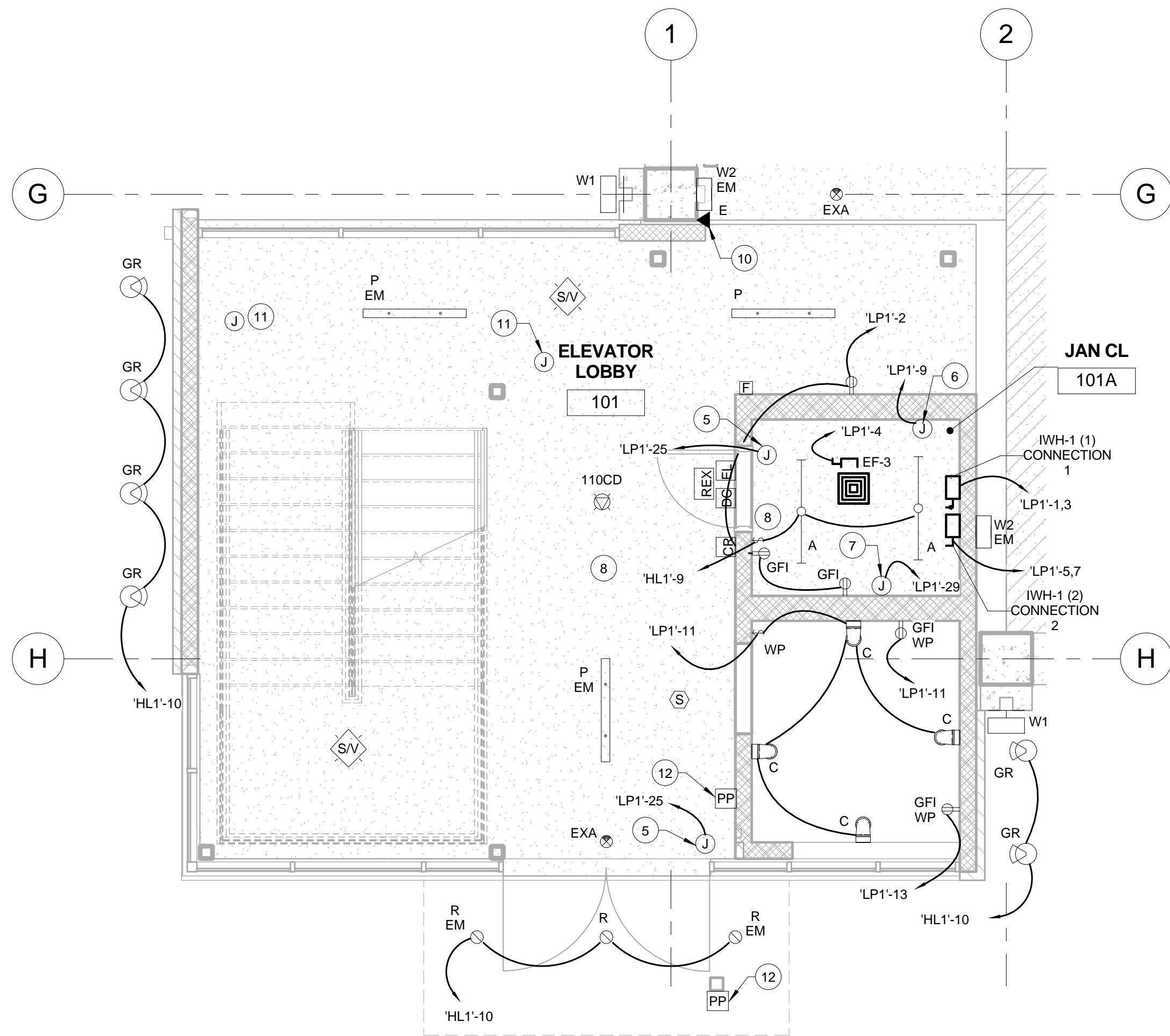




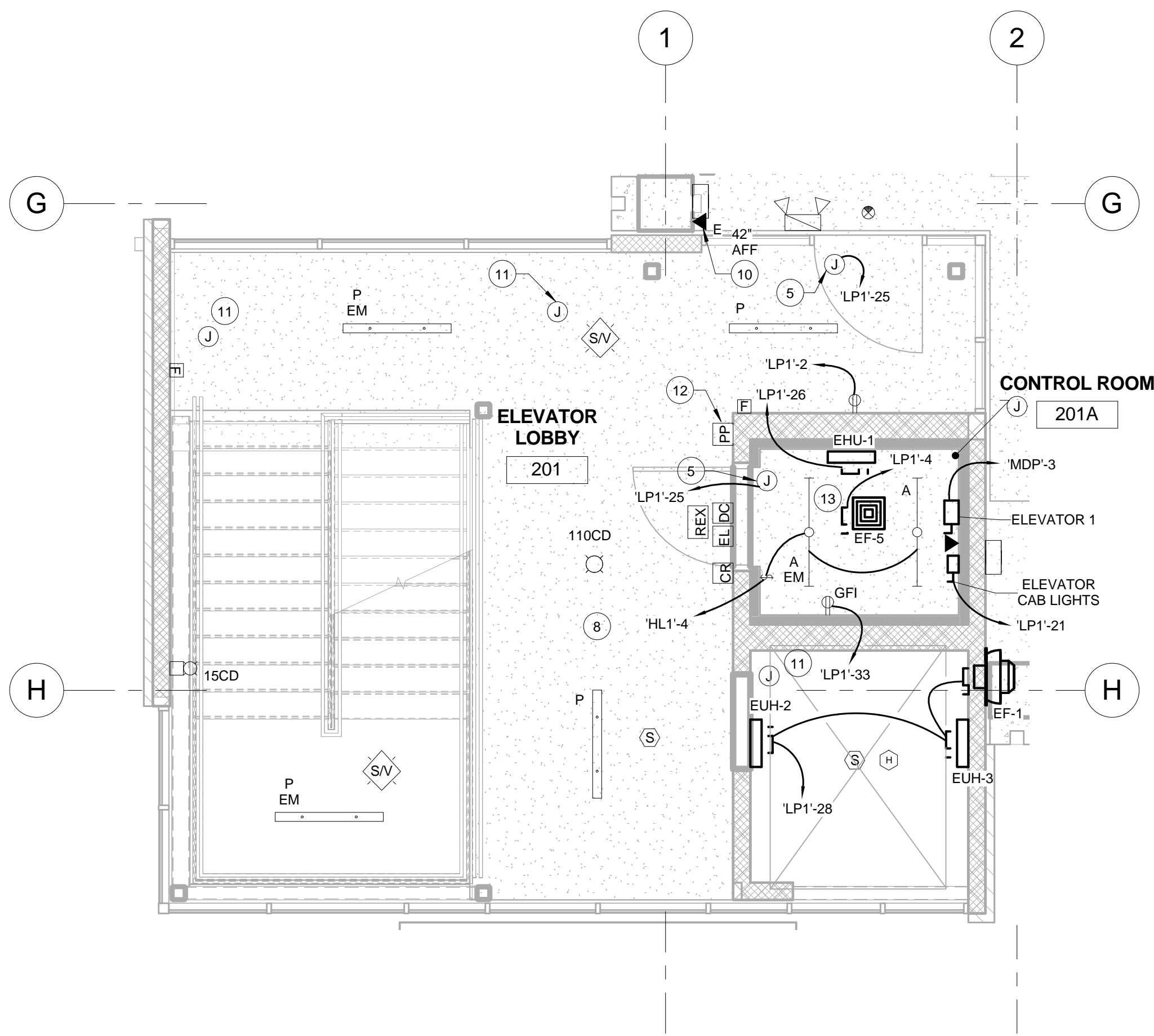
4 DOOR CARD READER ACCESS DETAIL  
N.T.S.



1 1ST LEVEL STORAGE 103 AND EQUIPMENT 105 ENLARGEMENT  
1/4" = 1'-0"



2 1ST LEVEL ELEVATOR LOBBY 101 ENLARGEMENT  
1/4" = 1'-0"



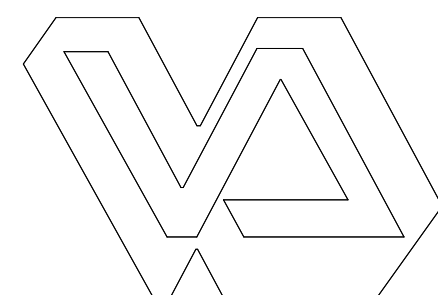
3 2ND LEVEL ELEVATOR LOBBY 1 ENLARGEMENT  
1/4" = 1'-0"

GENERAL NOTES:

- ALL RECEPTACLE CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
- ALL LIGHTING CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
- SEE E-601 FOR EQUIPMENT CONDUCTOR SCHEDULE.
- ALL EMERGENCY NIGHTLIGHTS, EXIT SIGNS AND EMERGENCY EGRESS LIGHTING SHALL BE CIRCUITED FROM LIGHTING CIRCUIT SERVING THE SAME AREA BUT AHEAD OF ANY SWITCHING.
- A CORRIDOR, ROOM OR ADJACENT SPACE WITH TWO OR MORE VISIBLE NOTIFICATION APPLIANCES WITHIN THE FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION.

KEYED NOTES

- ELEVATOR DISCONNECT LOCATED IN ELEVATOR EQUIPMENT ROOM AT TOP OF ELEVATOR SHAFT. PROVIDE CIRCUITS FOR ELEVATOR CAB LIGHTS, ELEVATOR MACHINE ROOM LIGHTS AND RECEPTACLE. ELEVATOR DISCONNECT MUST HAVE AUXILIARY CONTACTS FOR RECALL.
- UPS RECEPTACLE, NEMA L6-30R, CIRCUITED FROM LP1-40,42, WITH 2-10 AWG, 1-10 AWG EG IN 3/4" CONDUIT.
- FIRE ALARM CONTROL PANEL (FACP), CIRCUITED FROM LP1-20, WITH 2-12 AWG, 1-12 AWG EG IN 3/4" CONDUIT.
- LIGHTING CONTROL PANEL, CIRCUITED FROM HL1-2, WITH 2-12 AWG, 1-12 AWG EG IN 3/4" CONDUIT.
- JUNCTION BOX ABOVE CEILING FOR DOOR CONTROL POWER, PROVIDE 120 VOLT CIRCUIT AS SHOWN WITH 2-12 AWG, 1-12 AWG EG IN 3/4" CONDUIT. COORDINATE LOCATION AND CONNECTION WITH DOOR VENDER AND SECURITY CONTRACTOR.
- HEAT TAPE FOR COLD WATER PIPE FROM STAIR 102 TO JANITOR CLOSET 101. PROVIDE 120V CIRCUIT SHOWN WITH 2-12 AWG, 1-12 AWG EG IN 3/4" CONDUIT. SEE SHEET PP201 FOR ROUTING. COORDINATE ALL REQUIREMENTS WITH PLUMBING CONTRACTOR.
- HEAT TAPE FOR MOP SINK, RP2 AND COLD WATER LINE FOR HOSE BIBS UP TO THE 4TH FLOOR. PROVIDE 120V CIRCUIT SHOWN WITH 2-12 AWG, 1-12 AWG EG IN 3/4" CONDUIT. SEE SHEET PP201 AND COORDINATE ALL REQUIREMENTS WITH PLUMBING CONTRACTOR.
- ALL LIGHTING IN STAIRWELL 1, ELEVATOR LOBBY (1ST AND 2ND LEVELS) AND JANITOR'S CLOSET 101A SHALL BE CIRCUITED FROM HL1-5.
- JUNCTION BOX FOR ELECTRIC DOOR OPERATOR SWITCH FOR STORAGE DOOR. CONNECT TO RECEPTACLE CIRCUIT IN STORAGE 110. DOOR MANUFACTURER TO PROVIDE DOOR SWITCH.
- EMERGENCY TELEPHONE. TYPICAL ALL FLOORS. PROVIDE 3/4" CONDUIT TO TTB IN FIRST FLOOR IT CLOSET. INSTALL TWO CAT 6 CABLES AND TERMINATE IN PHONE. VA WILL TERMINATE ON TTB. ALSO, PROVIDE 3/4" CONDUIT WITH 3-12 AWG FOR 120 VOLT (A EMERGENCY PHONE CAN BE SERVED BY ONE 120 V CIRCUIT)
- JUNCTION BOX WITH 1" CONDUIT AND PULL STRING TO SECURITY ROOM 105 FOR CAMERAS. CAMERAS, WIRING AND TERMINATORS BY SECURITY CONTRACTOR. EACH CONDUIT IS A SEPARATE RUN TO ROOM 105
- HANDICAP PUSH PLATE ELECTRONIC DOOR OPENER. COORDINATE LOCATION AND ELECTRICAL REQUIREMENTS WITH DOOR VENDER.
- ELEVATOR CONTROL ROOM 201A LIGHTING SHALL BE CIRCUITED FROM HL1-4
- PROVIDE 4x8x3/4" AC PLYWOOD
- PROVIDE TWO POST TELECOM RACK WITH 2-120 VOLT CIRCUITS
- CCTV EQUIPMENT CABINET WITH DVR'S, PATCH PANEL ETC BY THE SECURITY CONTRACTOR PROVIDE 2-120V CIRCUITS.
- PROVIDE GROUND BUS (TMGB) AND GROUND TO ELECTRICAL SYSTEM
- SECURITY ACCESS CONTROL PANEL PROVIDE 1-120 VOLT CIRCUITS
- PROVIDE GROUND BUS "TGB" & GROUND TO THE MAIN GROUND BUS TMGB WITH 1-1/0 AWG EG CABLE EACH




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Medical Center  
2121 North Avenue  
Grand Junction, CO 81501

MEP:  
**APOGEE**  
Consulting Group, PA

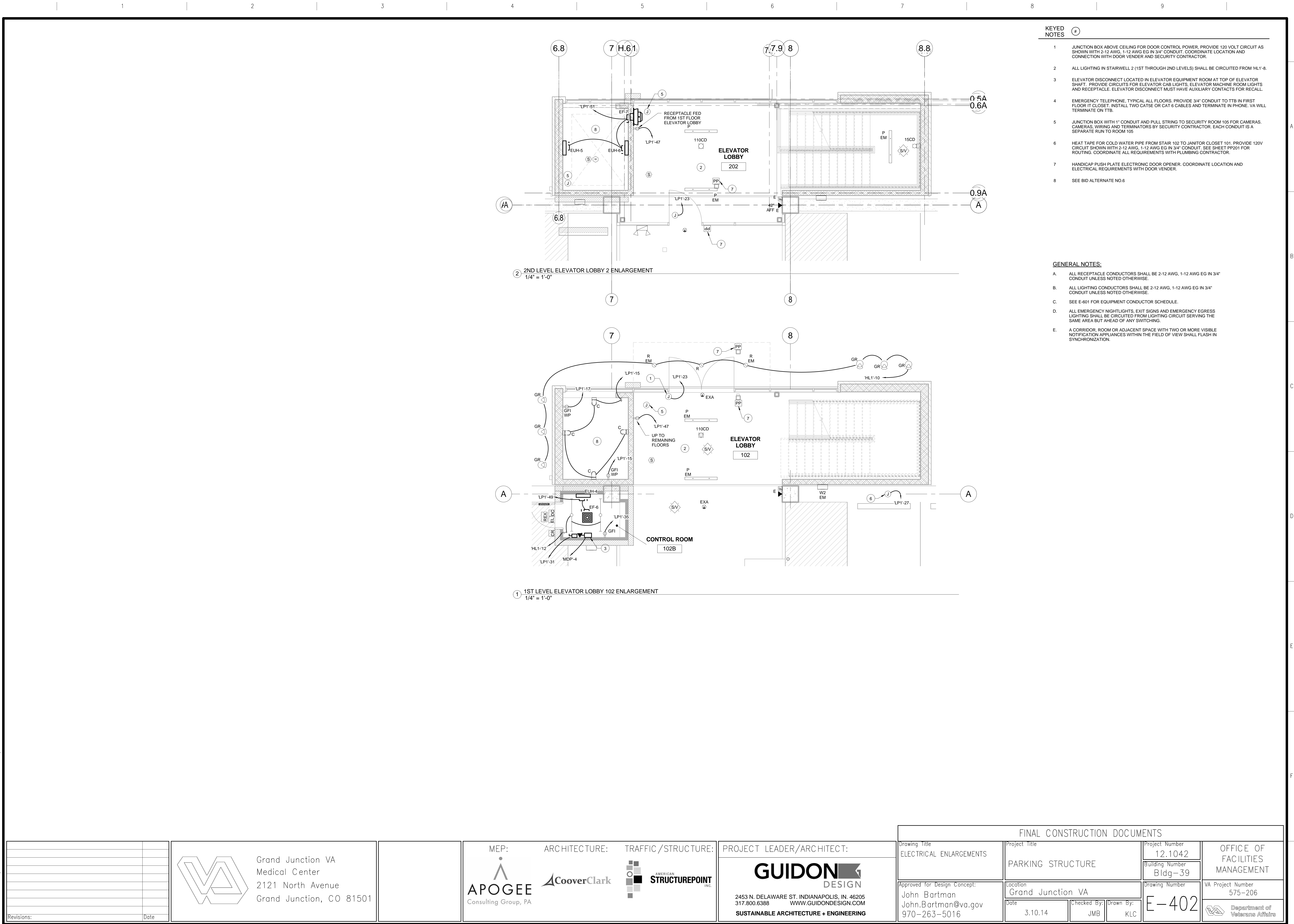
ARCHITECTURE:  
**CooverClark**

TRAFFIC/STRUCTURE:  
**AMERICAN STRUCTUREPOINT**  
INC.

PROJECT LEADER/ARCHITECT:  
**GUIDON DESIGN**  
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FINAL CONSTRUCTION DOCUMENTS				
Drawing Title ELECTRICAL ENLARGEMENTS	Project Title PARKING STRUCTURE	Project Number 12.1042	OFFICE OF FACILITIES MANAGEMENT	
		Building Number Bldg-39		
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA	Drawing Number E-401	VA Project Number 575-206	 Department of Veterans Affairs
	Date 3.10.14	Checked By: JMB	Drawn By: KLC	


three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
one quarter inch = one foot  
three eighths inch = one foot  
one eighth inch = one foot



- KEYED NOTES**
- 1 JUNCTION BOX ABOVE CEILING FOR DOOR CONTROL POWER. PROVIDE 120 VOLT CIRCUIT AS SHOWN WITH 2-12 AWG, 1-12 AWG EG IN 3/4" CONDUIT. COORDINATE LOCATION AND CONNECTION WITH DOOR VENDER AND SECURITY CONTRACTOR.
  - 2 ALL LIGHTING IN STAIRWELL 2 (1ST THROUGH 2ND LEVELS) SHALL BE CIRCUITED FROM 'HL1'-8.
  - 3 ELEVATOR DISCONNECT LOCATED IN ELEVATOR EQUIPMENT ROOM AT TOP OF ELEVATOR SHAFT. PROVIDE CIRCUITS FOR ELEVATOR CAB LIGHTS, ELEVATOR MACHINE ROOM LIGHTS AND RECEPTACLE. ELEVATOR DISCONNECT MUST HAVE AUXILIARY CONTACTS FOR RECALL.
  - 4 EMERGENCY TELEPHONE. TYPICAL ALL FLOORS. PROVIDE 3/4" CONDUIT TO ITB IN FIRST FLOOR IT CLOSET. INSTALL TWO CAT5E OR CAT 6 CABLES AND TERMINATE IN PHONE. VA WILL TERMINATE ON ITB.
  - 5 JUNCTION BOX WITH 1" CONDUIT AND PULL STRING TO SECURITY ROOM 105 FOR CAMERAS. CAMERAS, WIRING AND TERMINATORS BY SECURITY CONTRACTOR. EACH CONDUIT IS A SEPARATE RUN TO ROOM 105
  - 6 HEAT TAPE FOR COLD WATER PIPE FROM STAIR 102 TO JANITOR CLOSET 101. PROVIDE 120V CIRCUIT SHOWN WITH 2-12 AWG, 1-12 AWG EG IN 3/4" CONDUIT. SEE SHEET PP201 FOR ROUTING. COORDINATE ALL REQUIREMENTS WITH PLUMBING CONTRACTOR.
  - 7 HANDICAP PUSH PLATE ELECTRONIC DOOR OPENER. COORDINATE LOCATION AND ELECTRICAL REQUIREMENTS WITH DOOR VENDER.
  - 8 SEE BID ALTERNATE NO.6

- GENERAL NOTES:**
- A. ALL RECEPTACLE CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
  - B. ALL LIGHTING CONDUCTORS SHALL BE 2-12 AWG, 1-12 AWG EG IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
  - C. SEE E-601 FOR EQUIPMENT CONDUCTOR SCHEDULE.
  - D. ALL EMERGENCY NIGHTLIGHTS, EXIT SIGNS AND EMERGENCY EGRESS LIGHTING SHALL BE CIRCUITED FROM LIGHTING CIRCUIT SERVING THE SAME AREA BUT AHEAD OF ANY SWITCHING.
  - E. A CORRIDOR, ROOM OR ADJACENT SPACE WITH TWO OR MORE VISIBLE NOTIFICATION APPLIANCES WITHIN THE FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION.

		<div></div> <div>Grand Junction VA Medical Center 2121 North Avenue Grand Junction, CO 81501</div>		<div>MEP: </div>	<div>ARCHITECTURE: </div>	<div>TRAFFIC / STRUCTURE: </div>	<div>PROJECT LEADER/ARCHITECT:   2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205 317.800.6388 WWW.GUIDONDESIGN.COM <b>SUSTAINABLE ARCHITECTURE + ENGINEERING</b></div>	FINAL CONSTRUCTION DOCUMENTS							
<div>Revisions:</div> <div>Date</div>								Drawing Title ELECTRICAL ENLARGEMENTS		Project Title PARKING STRUCTURE		Project Number 12.1042 Building Number Bldg-39		OFFICE OF FACILITIES MANAGEMENT	
								<div>Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016</div>		Location Grand Junction VA		Drawing Number E-402		VA Project Number 575-206	
										Date 3.10.14		Checked By: JMB		Drawn By: KLC	

 Department of  
Veterans Affairs

three inches = one foot  
one and one half inches = one foot  
one inch = one foot  
three quarters inch = one foot  
one half inch = one foot  
three eighths inch = one foot  
one quarter inch = one foot  
one eighth inch = one foot  
one sixteenth inch = one foot

5 ENS RISER DIAGRAM - BUILDING 1  
N.T.S.

EXISTING DUCT BANK FROM  
SIGNAL VAULT MH-2B, SEE  
CONTINUATION ON 1/E-102.

ENS WIRING FROM  
EXISTING SIGNAL  
VAULT MH-2B TO 1ST  
FLOOR DATA CLOSET

INSTALL CONDUIT AND WIRING  
FROM 1ST FLOOR DATA  
CLOSET TO PENTHOUSE HEAD  
END EQUIPMENT FOR ENS.

APPROXIMATELY 150' FROM  
WHERE DUCTBANK ENTERS  
CRAWLSPACE TO ROOM 1416 ON  
1ST FLOOR.

### ENS NOTES

- ALL CONDUIT FOR ENS TO BE GREEN IN COLOR.
- CABLE SHOULD BE SIMILAR OR EQUAL TO EMTELE FIBREFLOW BLOWN FIBER RISER RATED 7 WAY CODE 60386
- EXISTING SYSTEM IS NOTIFIER WITH LOCAL REPRESENTATION. NEW DEVICES AND WIRING MUST BE COMPATIBLE WITH EXISTING SYSTEM.

APPROXIMATELY 50' FROM ROOM 6409 TO  
PENTHOUSE AREA WHERE EQUIPMENT IS  
LOCATED. DISTANCE DOES NOT INCLUDE  
VERTICAL DISTANCE.

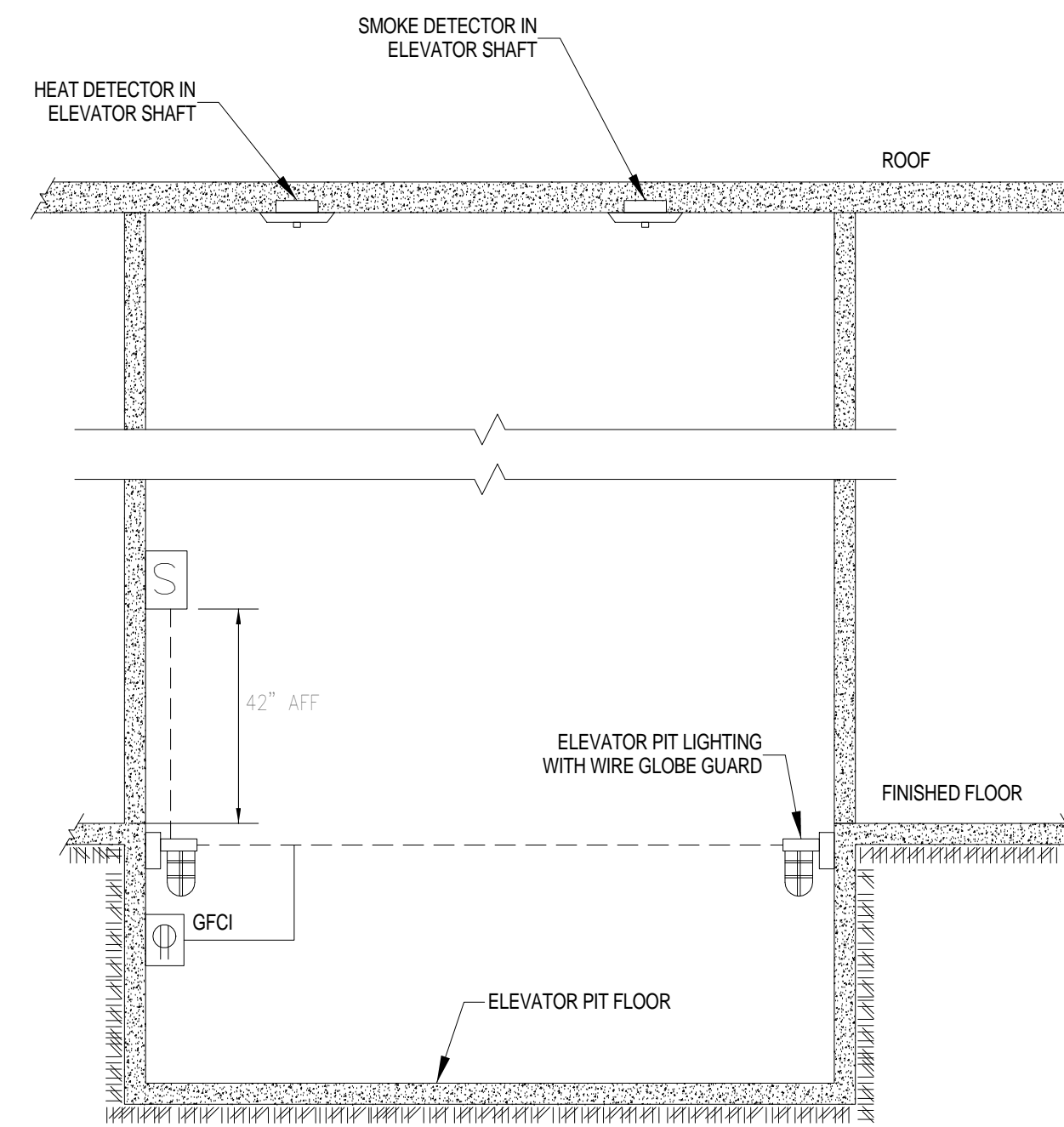
ENS HE  
DAS HE  
DAS WIRING TO FOLLOW  
SAME ROUTE AS ENS

### FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
	FIRE ALARM HORN/STROBE LIGHT-WALL MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" AFF.
	FIRE ALARM STROBE LIGHT-WALL MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" AFF.
	FIRE ALARM STROBE LIGHT-CEILING MOUNTED SUCH THAT THE ENTIRE LENS IS NOT GREATER THAN 10'-0" AFF.
	FIRE ALARM HORN/STROBE LIGHT-CEILING MOUNTED SUCH THAT THE ENTIRE LENS IS NOT GREATER THAN 10'-0" AFF.
	MANUAL FIRE ALARM PULL STATION TO BE LOCATED WITHIN 5'-0" OF THE EXIT DOORWAY OPENING. MIN. 42" AFF. MAX. 48" AFF.
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR
	SMOKE DETECTOR
	HEAT DETECTOR
	SMOKE DUCT DETECTOR
	FLOW SWITCH
	TAMPER SWITCH
	SMOKE DAMPER

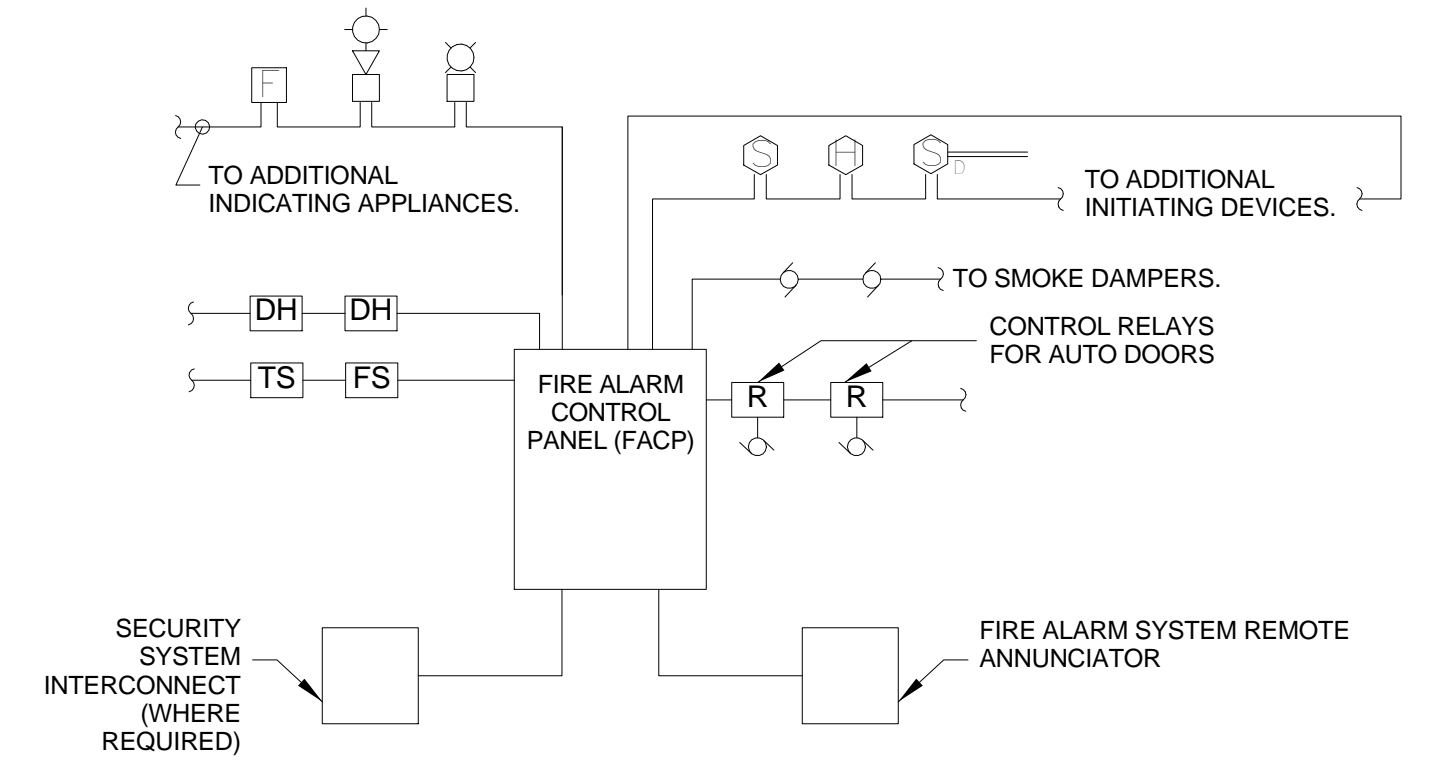
### EMERGENCY NOTIFICATION SYSTEM (ENS) LEGEND

SYMBOL	DESCRIPTION
	SPEAKER STROBE, WHITE WITH AMBER LENS AND THE WORD ALERT IN RED LETTERS.
	EMERGENCY NOTIFICATION SYSTEM PANEL
	EXISTING ENS HEAD END EQUIPMENT LOCATED IN PENTHOUSE OF BUILDING #1



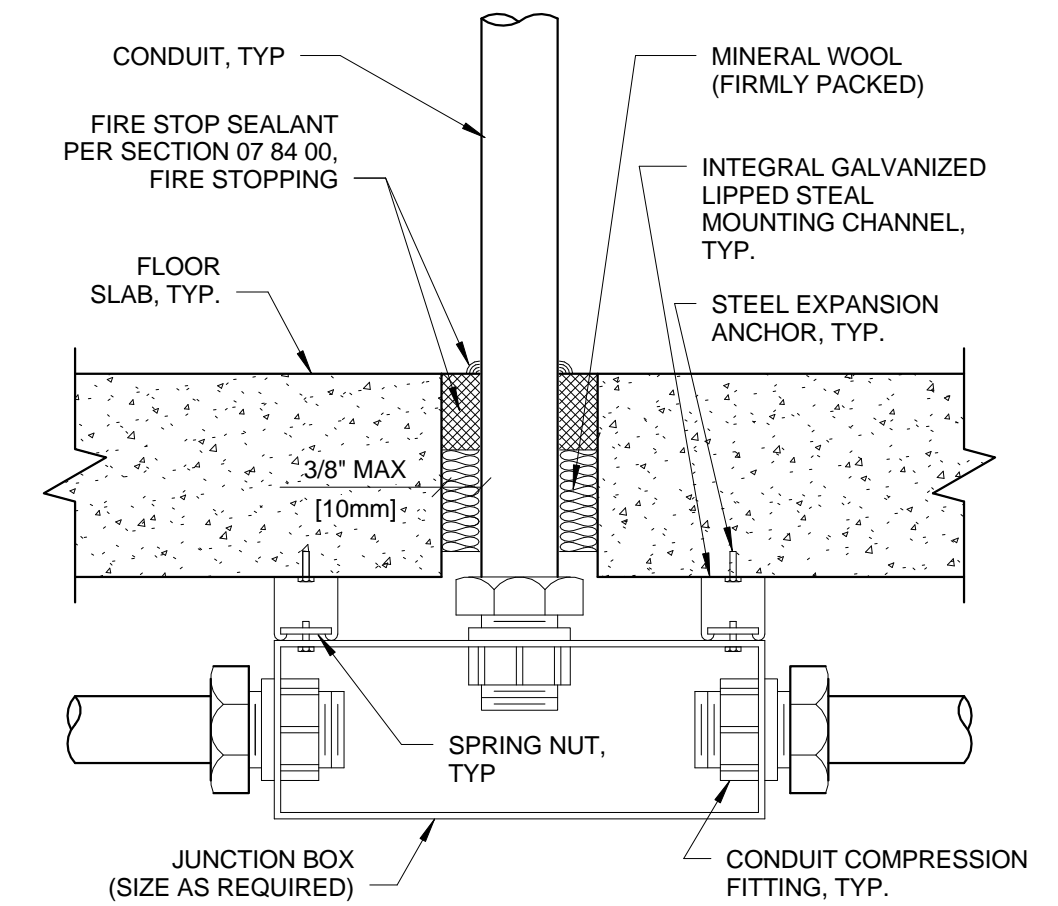
- NOTES:
- IN CASE OF A FIRE ALARM THE ELEVATOR'S PRIMARY RECALL SHALL BE THE GROUND LEVEL AND THE SECONDARY RECALL SHALL BE THE SECOND LEVEL.

4 ELEVATOR PIT DETAIL  
N.T.S.

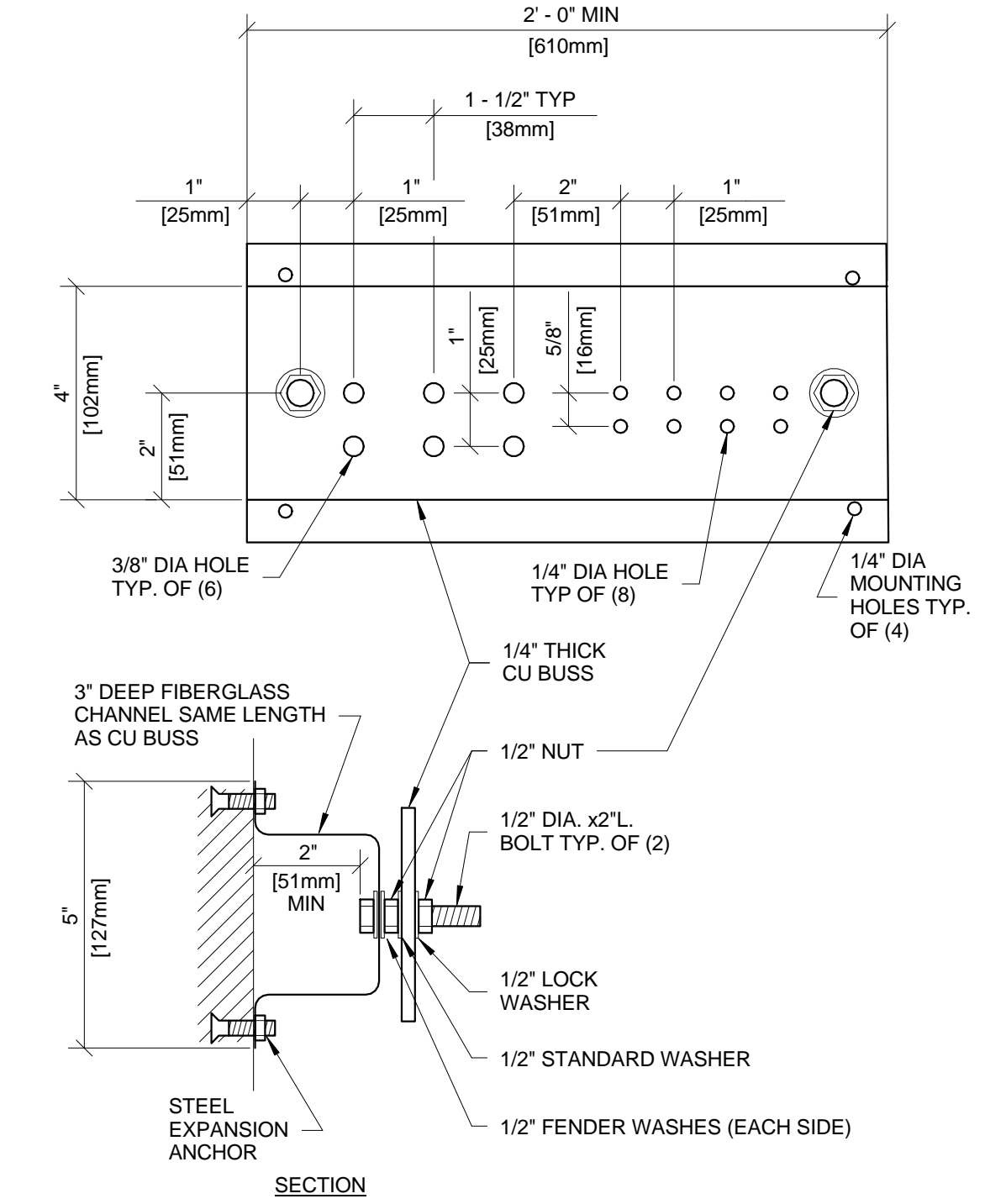


- NOTES:
- ALL FIRE ALARM WIRING SHALL BE IN EMT CONDUIT AND PAINTED RED.
  - ALL WIRING SHALL BE AS RECOMMENDED BY MANUFACTURER.
  - PROVIDE SEPARATE OUTPUT SIGNALS TO AIR HANDLER UNIT VFD FOR INDIVIDUAL UNIT SHUT-DOWN.
  - PROVIDE ZONE ADAPTER MODULES TO CONNECT NON-ADDRESSABLE DEVICES SUCH AS FLOW AND TAMPER SWITCHES, DOOR HOLDERS AND CONTROL SIGNALS.
  - PROVIDE POWER SUPPLY AS REQUIRED FOR ADDITIONAL DEVICES AS REQUIRED.
  - EXISTING SYSTEM IS NOTIFIER WITH LOCAL REPRESENTATION. NEW DEVICES AND WIRING MUST BE COMPATIBLE WITH EXISTING SYSTEM.

1 FIRE ALARM SYSTEM RISER DIAGRAM  
N.T.S.



2 FLOOR SLAB PENETRATION DETAIL  
N.T.S.



- GENERAL NOTES:
- ALL HARDWARE SHOWN SHALL BE STAINLESS STEEL.
  - PROVIDE 1 MOUNTING POINT PER 12" OF BAR LENGTH.
  - HOLES MAY BE ADDED IF REQUIRED.

3 PARKING GARAGE ELECTRICAL ROOM GROUND BAR DETAIL  
N.T.S.

### FINAL CONSTRUCTION DOCUMENTS

Drawing Title ELECTRICAL DETAILS	Project Title PARKING STRUCTURE	Project Number 12.1042 Building Number Bldg-39	OFFICE OF FACILITIES MANAGEMENT
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA	Drawing Number E-501	VA Project Number 575-206
	Date 3.10.14	Checked By: JMB	Department of Veterans Affairs

PROJECT LEADER/ARCHITECT:

**GUIDON**  
DESIGN

2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
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TRAFFIC / STRUCTURE:

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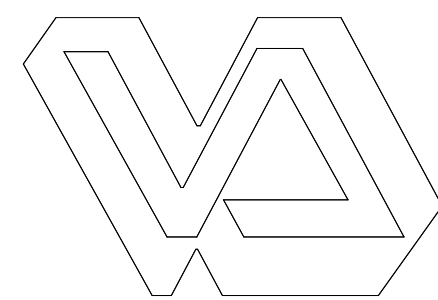
ARCHITECTURE:

**CooverClark**

MEP:

**APOGEE**  
Consulting Group, PA

Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501



Revisions: Date



**A**

three inches = one foot

1

**B**

one and one half inches = one foot

2

**C**

three quarters inch = one foot

4

**D**

one half inch = one foot

8

**E**

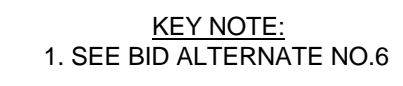
three eighths inch = one foot

16

**F**

one quarter inch = one foot

32



---

**F**

one eighth inch = one foot/16

one quarter inch = one foot/4

three eighths inch = one foot/8

C C C

\_\_\_\_\_



MEP:  
A  
APOGEE  
Consulting Group, PA



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INC.

Approved for Design Concept:  
John Bartman  
John.Bartman@va.gov  
970-263-5016

Checked By:	Drawn By:
JMB	KIC

OFFICE OF FACILITIES MANAGEMENT
VA Project Number 575-206
 Department of Veterans Affairs







A

B

C

D

E

F

A

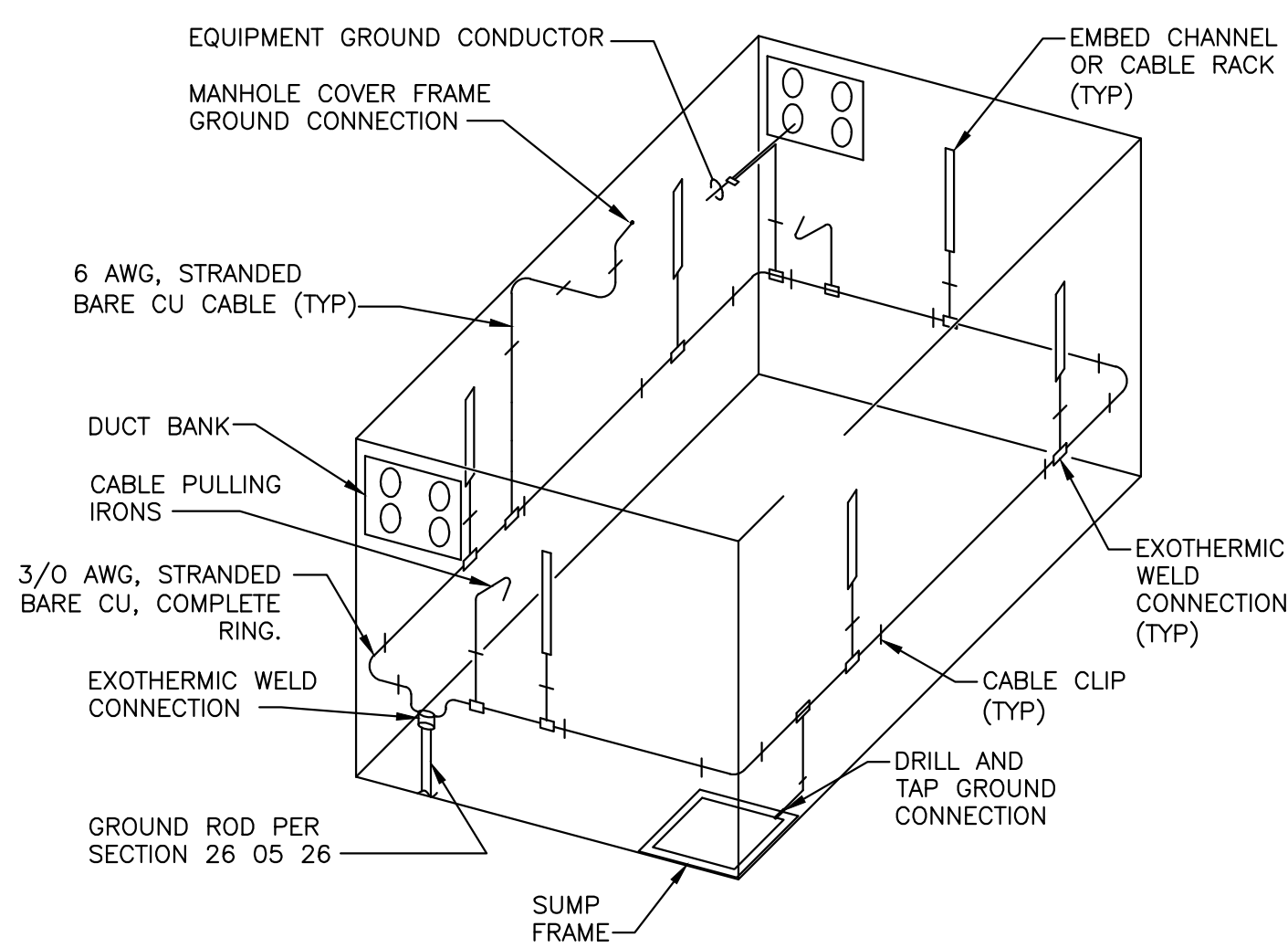
B

C

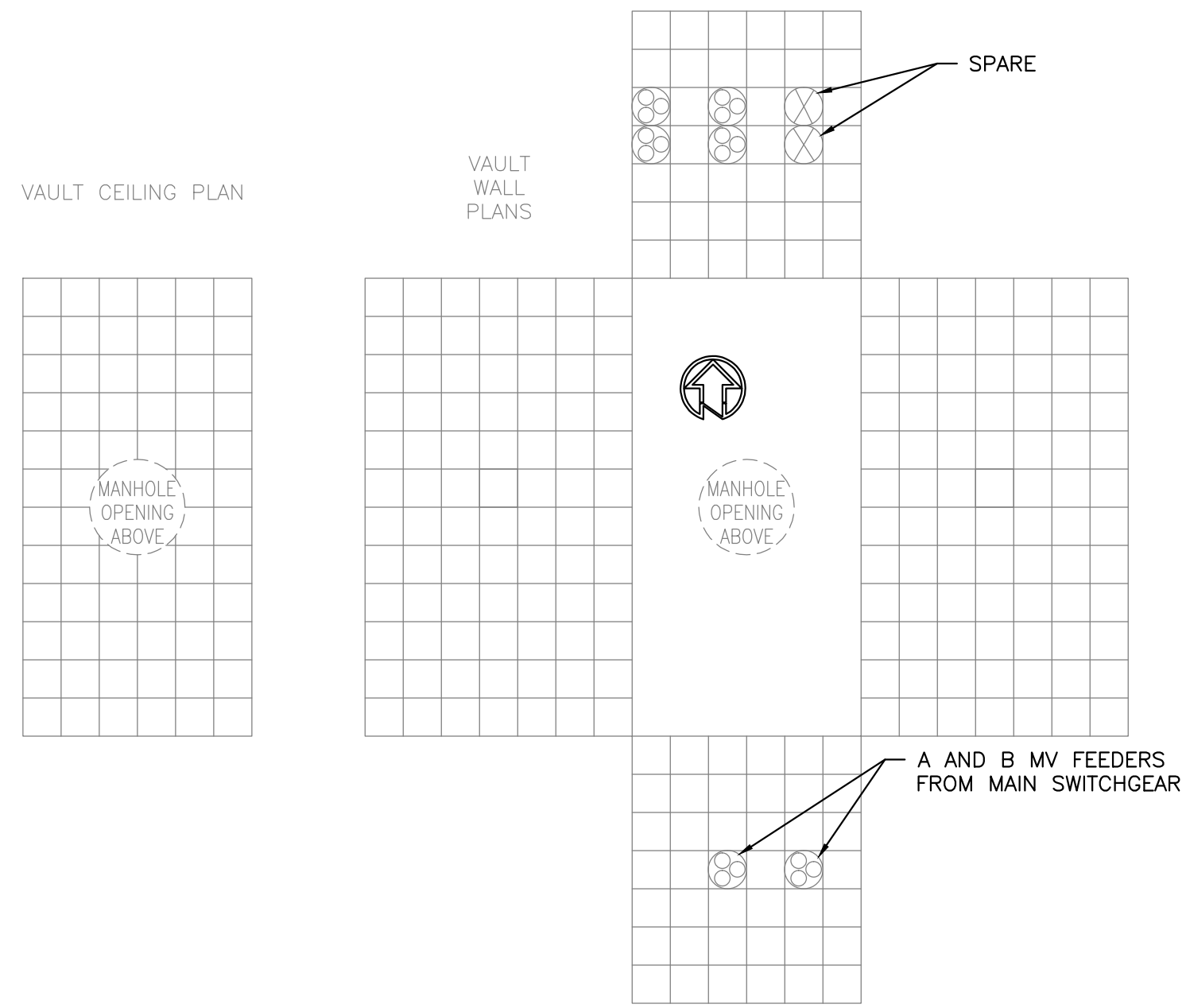
D

E

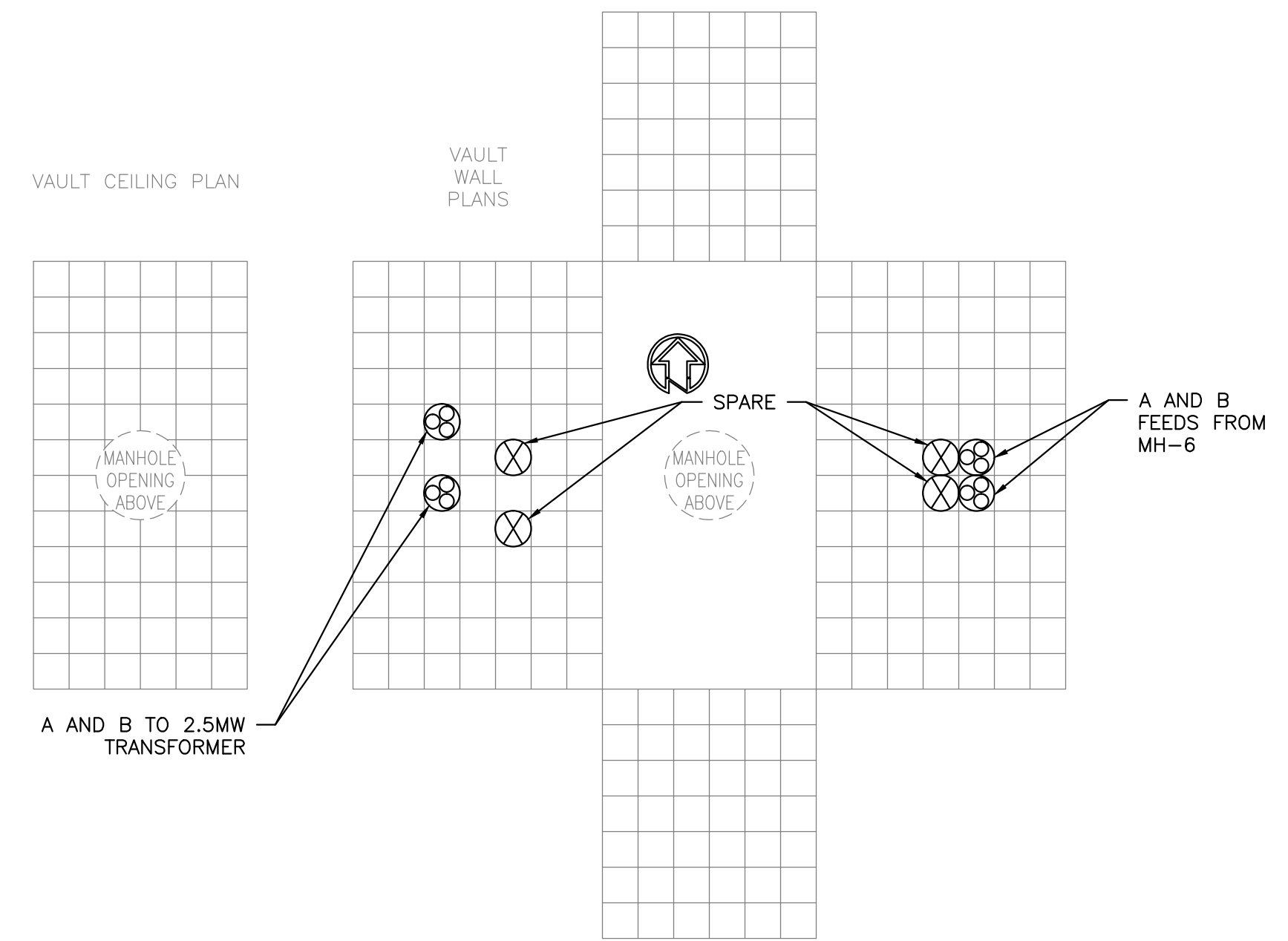
F



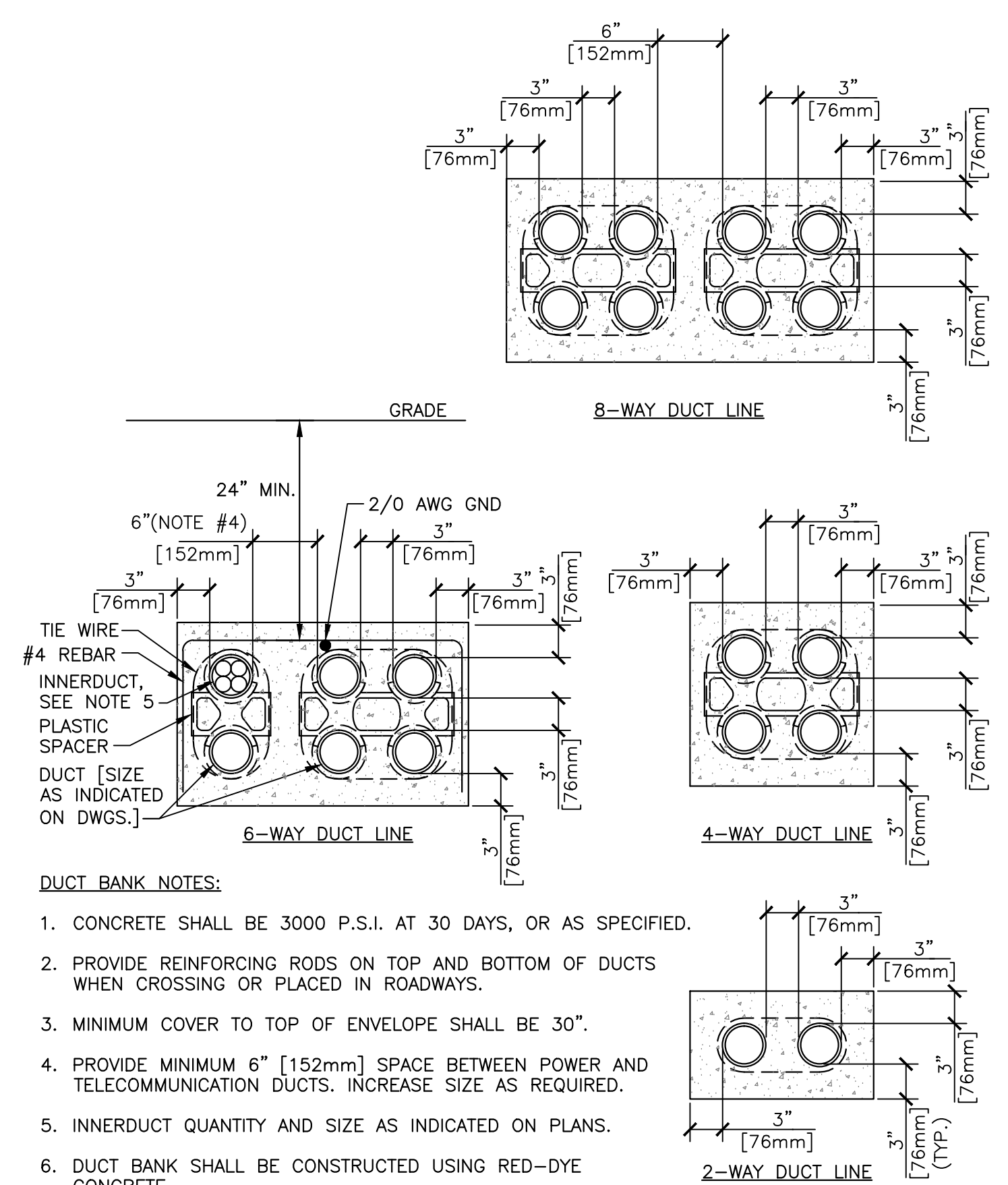
4 TYP GROUNDING VAULT DETAIL  
E-702 SCALE: NTS



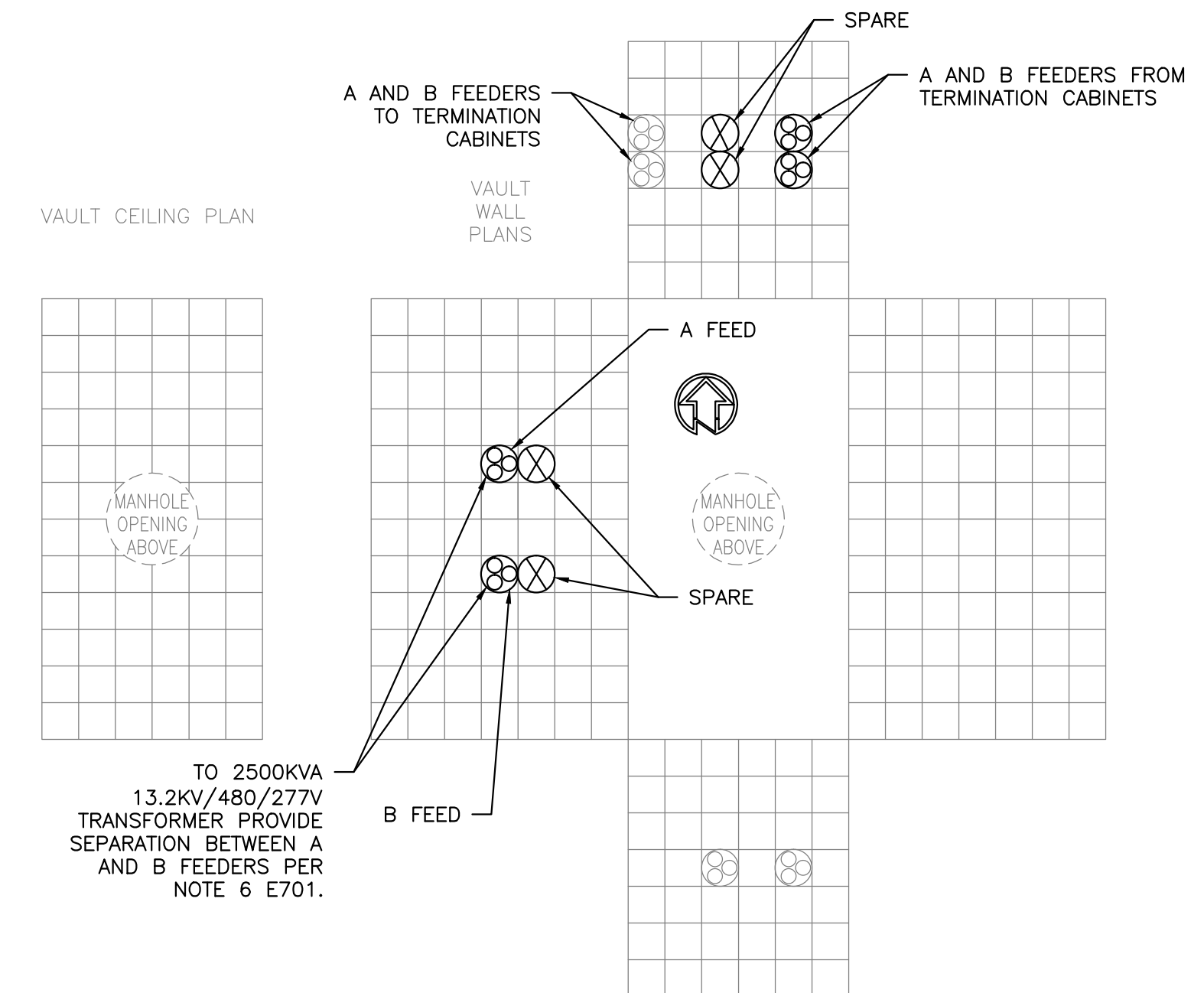
1 EXISTING MH 6 VAULT DETAIL  
E-702 SCALE: 1/8" = 1'-0"



5 NEW MH-7 ELECTRICAL VAULT DETAIL  
E-702 SCALE: 1/8" = 1'-0"

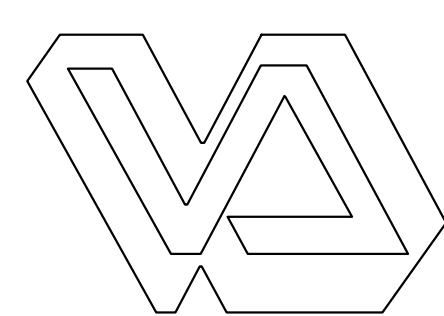


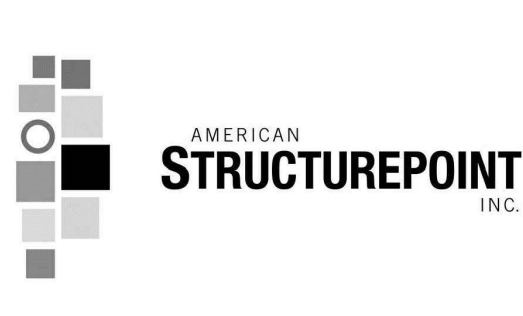




3 DUCT BANK DETAIL  
E-702 SCALE: NTS

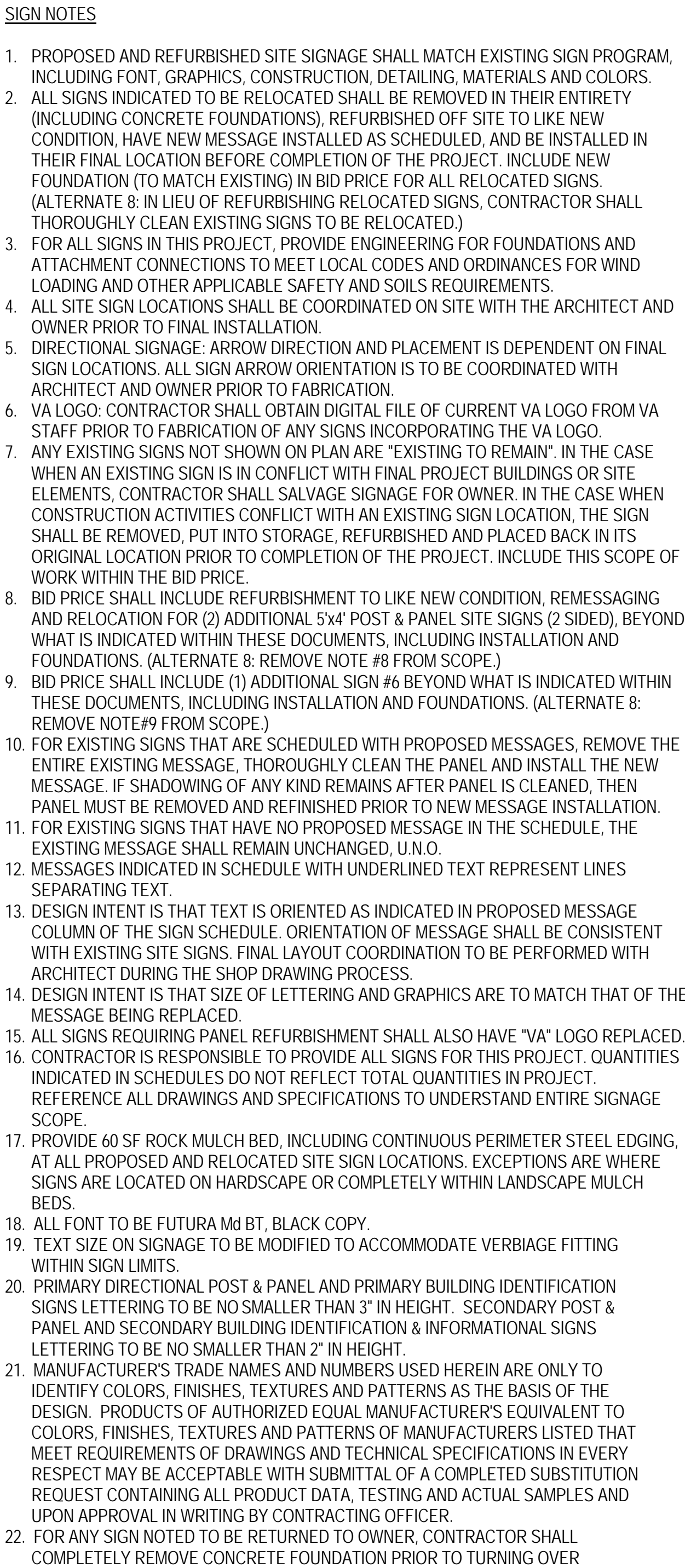


2 PROPOSED MH 6 VAULT DETAIL  
E-702 SCALE: 1/8" = 1'-0"

- DUCT BANK NOTES:
1. CONCRETE SHALL BE 3000 P.S.I. AT 30 DAYS, OR AS SPECIFIED.
  2. PROVIDE REINFORCING RODS ON TOP AND BOTTOM OF DUCTS WHEN CROSSING OR PLACED IN ROADWAYS.
  3. MINIMUM COVER TO TOP OF ENVELOPE SHALL BE 30".
  4. PROVIDE MINIMUM 6" [152mm] SPACE BETWEEN POWER AND TELECOMMUNICATION DUCTS. INCREASE SIZE AS REQUIRED.
  5. INNERDUCT QUANTITY AND SIZE AS INDICATED ON PLANS.
  6. DUCT BANK SHALL BE CONSTRUCTED USING RED-DYE CONCRETE.
  7. RESTORE FINISHED GRADE TO MATCH EXISTING.
  8. ASPHALT AND CONCRETE SHALL BE SAWCUT PRIOR TO REMOVING.

 <div>Grand Junction VA Medical Center 2121 North Avenue Grand Junction, CO 81501</div>		 <div>APOGEE Consulting Group, PA</div>		 <div>CooverClark</div>		 <div>AMERICAN STRUCTUREPOINT INC.</div>		PROJECT LEADER/ARCHITECT:  <div>GUIDON DESIGN</div> <div>2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205 317.800.6388 WWW.GUIDONDESIGN.COM SUSTAINABLE ARCHITECTURE + ENGINEERING</div>		FINAL CONSTRUCTION DOCUMENTS Drawing Title ELECTRICAL DETAILS Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016		Project Title PARKING STRUCTURE Location Grand Junction VA Date 3.10.14 Checked By: JMB Drawn By: KLC		Project Number 12.1042 Building Number Bldg-39 Drawing Number E-702		OFFICE OF FACILITIES MANAGEMENT VA Project Number 575-206 	
Revisions:		Date															





A horizontal bar chart showing the distribution of responses for 'How often do you use the Internet?'. The x-axis is labeled with 0', 15', 30', and 60'. The chart consists of two rows of bars. The top row has four bars of equal length, each representing 15 units. The bottom row has three bars: the first is 15 units long, the second is 15 units long, and the third is 30 units long, extending to the 60' mark.



Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501

PROJECT LEADER/ARCHITECT:


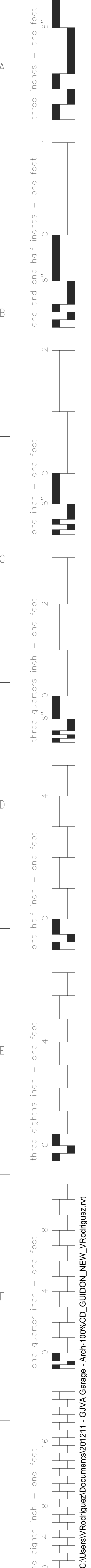
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W-00


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Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501

MEP:  
A  
APOGEE  
Consulting Group, PA

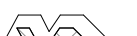
TRAFFIC/STRUCTURE:



AMERICAN  
**STRUCTUREPOINT**  
INC.

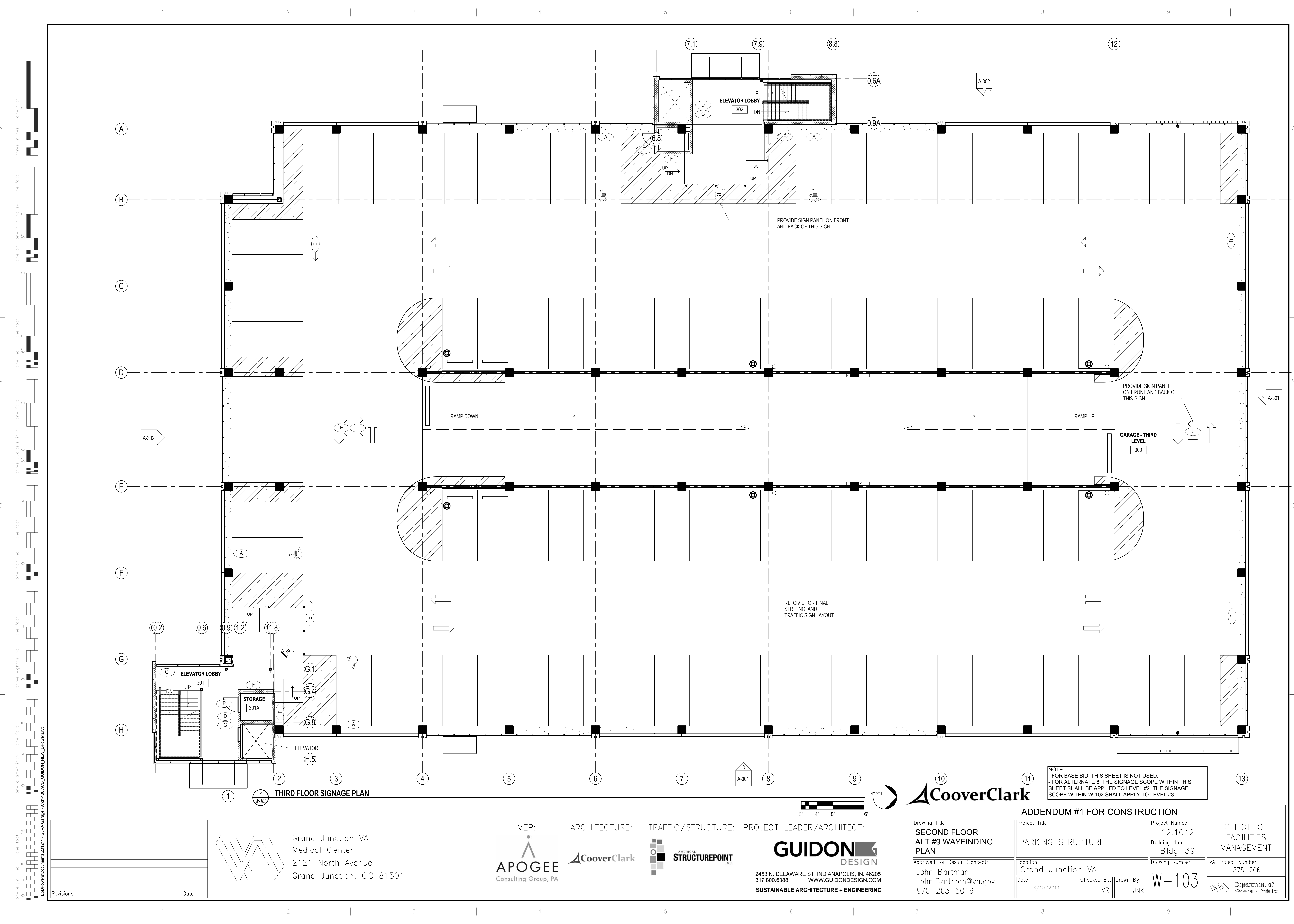
ABOVE. —

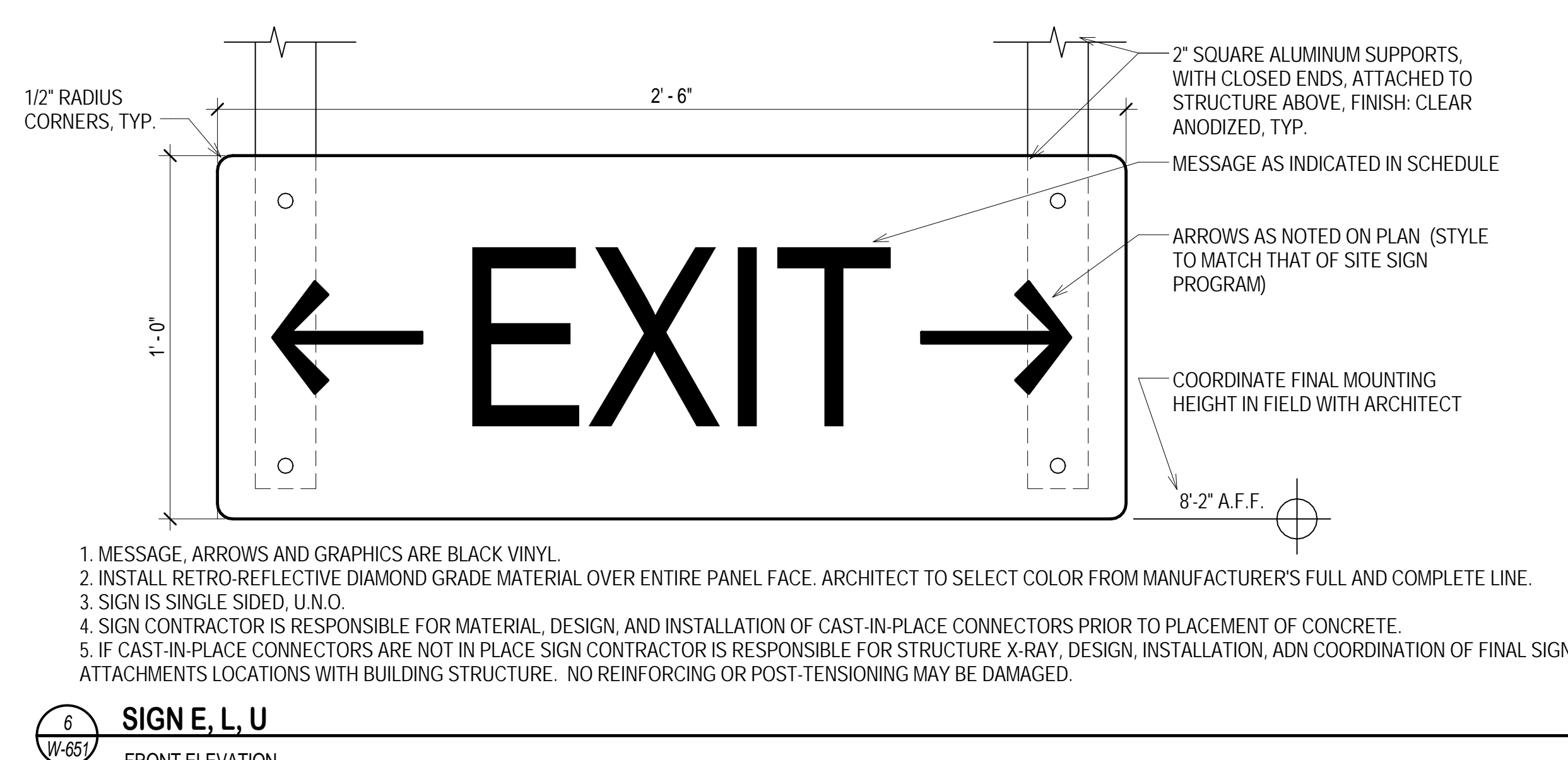
 **CooverClark**

ADDENDUM #1 FOR CONSTRUCTION				
Drawing Title FIRST FLOOR WAYFINDING PLAN	Project Title PARKING STRUCTURE		Project Number 12.1042	OFFICE OF FACILITIES MANAGEMENT
			Building Number Bldg-39	
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016	Location Grand Junction VA		Drawing Number	VA Project Number 575-206
	Date 3/10/2014	Checked By: VR	Drawn By: JNK	 Department of Veterans Affairs









**CooverClark**



SITE SIGNAGE SCHEDULE					
Sign Type	Proposed Message	Graphics / Symbols	Material	Detail	Notes
EX1 (SIDE A)	Medical Center Grand Junction, CO "Northwest Entrance" (Truck & Delivery Entrance)	-	ALUM. POST & PANEL	-	- EXISTING SIGN TO REMAIN IN PLACE. - CLEAN POST & PANEL THOROUGHLY. - SIDE "B": EXISTING MESSAGE TO REMAIN. - (ALTERNATE 8: EXISTING SIGN TO REMAIN AS-IS)
EX2 (SIDE A)	Receiving Warehouse	ARROW	ALUM. POST & PANEL	-	- LOCATE IN FIELD WITH ARCHITECT.
EX2 (SIDE B)	Exit to North Avenue	ARROW	ALUM. POST & PANEL	-	- LOCATE IN FIELD WITH ARCHITECT.
EX3 (SIDE A)	Receiving Warehouse No Trucks Beyond This Point	- ARROW - DO NOT ENTER SYMBOL (RED)	ALUM. POST & PANEL	-	- EXISTING SIGN TO BE RELOCATED. - CLEAN POST & PANEL THOROUGHLY. - REMOVE PAVING AS NEEDED FOR FOUNDATION INSTALLATION. - (ALTERNATE 8: EXISTING SIGN TO REMAIN AS-IS)
EX3 (SIDE B)	-	-	ALUM. POST & PANEL	-	- EXISTING SIGN TO BE RELOCATED. - CLEAN POST & PANEL THOROUGHLY. - EXISTING MESSAGE TO REMAIN.
EX4 (BOTH SIDES)	-	-	ALUM. POST & PANEL	-	- EXISTING SIGN TO BE RELOCATED. (ALTERNATE 8: EXISTING SIGN TO REMAIN AS-IS) - EXISTING MESSAGE TO REMAIN.
EX5 (BOTH SIDES)	-	-	ALUM. POST & PANEL	-	- EXISTING SIGN TO REMAIN - NO CHANGE.
EX6 (SIDE A)	Receiving Warehouse Access	- ARROW	ALUM. POST & PANEL	-	- EXISTING SIGN TO BE RELOCATED. (LOCATE IN FIELD WITH ARCHITECT). - REFURBISH POST & PANEL TO LIKE NEW CONDITION. - SIDE "B": REMOVE MESSAGE FOR A BLANK PANEL.
EX7 (SIDE A)	-	- ARROW	ALUM. POST & PANEL	-	- EXISTING SIGN TO BE RELOCATED. (LOCATE IN FIELD WITH ARCHITECT). - REFURBISH POST & PANEL TO LIKE NEW CONDITION, EXIST MESSAGE TO REMAIN. - (ALTERNATE 8: EXISTING SIGN TO REMAIN AS-IS)
EX7 (SIDE B)	Main Hospital	- ARROW	ALUM. POST & PANEL	-	- EXISTING SIGN TO BE RELOCATED. (LOCATE IN FIELD WITH ARCHITECT). - REMOVE TEXT ON LOWER BARS. REFURBISH POST & PANEL TO LIKE NEW CONDITION. - (ALTERNATE 8: EXISTING SIGN TO REMAIN AS-IS)
EX8 (SIDE A)	DO NOT ENTER Ambulance Only	- DO NOT ENTER SYMBOL (RED)	ALUM. POST & PANEL	-	- EXISTING SIGN TO BE RELOCATED. (LOCATE IN FIELD WITH ARCHITECT). - REFURBISH POST & PANEL TO LIKE NEW CONDITION. - SIDE "B": REMOVE MESSAGE FOR A BLANK PANEL.
EX9 (SIDE A)	-	- ARROW (X2)	ALUM. POST & PANEL	-	- EXISTING SIGN TO BE RELOCATED. (LOCATE IN FIELD WITH ARCHITECT). - CLEAN POST & PANEL THOROUGHLY. - REORIENT ARROWS DUE TO RELOCATION OF SIGN.
EX9 (SIDE B)	Exit To North Avenue	- ARROW	ALUM. POST & PANEL	-	- EXISTING SIGN TO BE RELOCATED. (LOCATE IN FIELD WITH ARCHITECT). - CLEAN POST & PANEL THOROUGHLY. - REORIENT ARROW DUE TO RELOCATION OF SIGN.
EX10 (SIDE A)	-	-	ALUM. POST & PANEL	-	- EXISTING SIGN TO BE RELOCATED. (LOCATE IN FIELD WITH OWNER). - CLEAN POST & PANEL THOROUGHLY.
EX10 (SIDE B)	-	-	ALUM. POST & PANEL	-	- EXISTING SIGN TO BE RELOCATED. (LOCATE IN FIELD WITH OWNER). - CLEAN POST & PANEL THOROUGHLY.
EX11	-	-	ALUM. PANEL	-	- EXISTING SIGN TO BE RELOCATED TO GARAGE, RE: W-102.
EX12	-	-	ALUM. PANEL	-	- EXISTING SIGN TO BE RELOCATED TO GARAGE, RE: W-102.
EX13	-	-	ALUM. PANEL	-	- EXISTING SIGN TO BE RELOCATED TO GARAGE, RE: W-102.
EX14	-	-	ALUM. PANEL	-	- EXISTING SIGN TO BE RELOCATED TO GARAGE, RE: W-102.
EX15	-	-	ALUM. PANEL	-	- EXISTING SIGN TO BE RELOCATED TO GARAGE, RE: W-102.
EX16	-	-	ALUM. PANEL	-	- EXISTING SIGN TO BE RELOCATED TO GARAGE, RE: W-102.
EX17 (SIDE A)	Restricted Clearance Overflow Parking Physical Medicine Rehabilitation Services Conference Center	- ARROW (X3)	ALUM. CABINET ON CONC. BASE	-	- EXISTING SIGN TO BE RELOCATED. (LOCATE IN FIELD WITH ARCHITECT). - REFURBISH CABINET TO LIKE NEW CONDITION. - AT TOP OF SIGN FACE, INSTALL YELLOW REFLECTIVE ALUMINUM PANEL WITH BLACK LETTERING "RESTRICTED CLEARANCE" (6' TALL x FULL CABINET WIDTH) - (ALTERNATE 8: SALVAGE EXISTING SIGN, REMOVE FOOTING & RETURN TO OWNER)
EX17 (SIDE B)	Restricted Clearance Overflow Parking Physical Medicine Rehabilitation Services Main Hospital	- ARROW (X3)	ALUM. CABINET ON CONC. BASE	-	- EXISTING SIGN TO BE RELOCATED. (LOCATE IN FIELD WITH ARCHITECT). - REFURBISH CABINET TO LIKE NEW CONDITION. - AT TOP OF SIGN FACE, INSTALL YELLOW REFLECTIVE ALUMINUM PANEL WITH BLACK LETTERING "RESTRICTED CLEARANCE" (6' TALL x FULL CABINET WIDTH) - (ALTERNATE 8: SALVAGE EXISTING SIGN, REMOVE FOOTING & RETURN TO OWNER)
EX18 (SIDE A)	Ambulance Only	-	ALUM. CABINET ON CONCRETE BASE	-	- EXISTING SIGN TO REMAIN IN PLACE. - REFURBISH SIGN TO LIKE NEW CONDITION. - PROVIDE (3) 24"x44" FACE PANELS TO MATCH EXISTING, MOUNTED OVER EXISTING MESSAGE - VINYL LETTERING WITH NEW MESSAGE ON FACE PANEL.
EX18 (SIDE B)	Ambulance Only	-	ALUM. CABINET ON CONCRETE BASE	-	- EXISTING SIGN TO REMAIN IN PLACE. - REFURBISH SIGN TO LIKE NEW CONDITION. - PROVIDE (3) 24"x44" FACE PANELS TO MATCH EXISTING, MOUNTED OVER EXISTING MESSAGE - VINYL LETTERING WITH NEW MESSAGE ON FACE PANEL.
EX19	Overflow Parking	-	ALUM. CABINET ON CONCRETE BASE	-	- EXISTING SIGN TO REMAIN IN PLACE. - REFURBISH SIGN TO LIKE NEW CONDITION.
EX20	-	-	ALUM. CABINET ON CONCRETE BASE	-	- EXISTING SIGN TO REMAIN IN PLACE, EXISTING MESSAGE TO REMAIN. - CLEAN SIGN THOROUGHLY.
EX21	-	-	ALUM. CABINET ON CONCRETE BASE	-	- EXISTING SIGN TO REMAIN - NO CHANGE.
EX22	-	-	ALUM. POST & PANEL	-	- EXISTING SIGN TO REMAIN - NO CHANGE.
1	Overflow Parking	ARROW	ALUM. POST & PANEL	1/L-102	- LOCATE IN FIELD WITH ARCHITECT.
2 (NOT USED)	-	-	-	-	-
3	PED XING	CROSSWALK AND PEDESTRIAN SYMBOL	ALUM. POST & PANEL	3/L-102	- LOCATE IN FIELD WITH ARCHITECT. - (ALTERNATE 8: REPLACE THIS SIGN WITH STANDARD ALUMINUM PANEL ROADWAY SIGN.)
4 (SIDE A)	Building 38 Physical Medicine Rehabilitation Services	ARROW	ALUM. POST & PANEL	4/L-102	- LOCATE IN FIELD WITH ARCHITECT. - SIDE "B": Main Hospital (WITH DIRECTIONAL ARROW) - (ALTERNATE 8: REMOVE SIGN 4 FROM SCOPE OF WORK)
5	Building 39 Overflow Parking	PARKING SYMBOL (BLUE)	ALUM. POST & PANEL	5/L-102	- LOCATE IN FIELD WITH ARCHITECT.
6 (NOT USED)	-	-	-	-	-

BUILDING SIGNAGE SCHEDULE						
Sign Type	Proposed Message	Graphics / Symbols	Material	Size	Detail	Notes
A	VAN ACCESSIBLE	- ADA WHEELCHAIR SYMBOL (X2) - ARROW (X2)	ALUMINUM	(SEE DETAIL)	3/W-651	- PROVIDE "VAN ACCESSIBLE" MESSAGE AT APPLICABLE SPACES.
B1	<u>Reserved</u> Physicians Only	- ARROW (X2)	ALUMINUM	(SEE DETAIL)	3/W-651 (SIM.)	-
B2	<u>Reserved</u> Executive Staff  Associate Director	- ARROW (X2)	ALUMINUM	(SEE DETAIL)	3/W-651 (SIM.)	- CONTRACTOR TO COORDINATE SPECIFIC TITLE (BOTTOM TWO WORDS) WITH ARCHITECT PRIOR TO FABRICATION. BID TO INCLUDE FULL MESSAGE WITH 20 LETTERS IN BOTTOM TWO WORDS.
B3	<b>No Parking</b> Violators Will Be Towed At Owner's Expense	"P" with strikethrough	ALUMINUM	(SEE DETAIL)	3/W-651 (SIM.)	- COORDINATE MOUNTING HEIGHT AND FINAL LOCATION IN FIELD WITH ARCHITECT.
B4	(NOT USED)	-	-	-	-	-
B5	(NOT USED)	-	-	-	-	-
D	(SEE DETAIL)	(SEE DETAIL)	ALUMINUM	(SEE DETAIL)	10/W-651	- WALL MOUNTED - COORDINATE FINAL LOCATION IN FIELD WITH ARCHITECT.
E	EXIT	- ARROW (X2)	ALUMINUM	(SEE DETAIL)	6/W-651	- COORDINATE MOUNTING HEIGHT AND FINAL LOCATION IN FIELD WITH ARCHITECT.
F	(NOT USED)	-	-	-	-	-
G	(SEE DETAIL)	(SEE DETAIL)	ALUMINUM	18" X 18"	1, 2, 4, 5/W-651	- DETAIL/MESSAGE/GRAPHIC ASSOCIATED WITH APPLICABLE LEVEL. - WALL MOUNTED. - COORDINATE MOUNTING HEIGHT AND FINAL LOCATION IN FIELD WITH ARCHITECT.
H	(SEE DETAIL)	(SEE DETAIL)	ALUMINUM	2" X 2"	1, 2, 4, 5/W-651	- PROVIDE (1) LEVEL INDICATOR SIGN AT EACH ELEVATOR CAB CALL BUTTON, FOR A TOTAL OF (2) 2" X 2" SIGNS IN EACH ELEVATOR CAB. - COORDINATE EXACT SIZE AND PLACEMENT WITH ELEVATOR CAB BUTTON LAYOUT WITH ARCHITECT DURING SHOP DRAWING REVIEW.
J1	(SEE DETAIL)	- ELEVATOR CAB WITH PEOPLE, - ARROW (X2)	DIMENSIONAL ALUMINUM PLATE	(SEE DETAIL)	7/W-651	- COORDINATE FINAL MOUNTING LOCATION IN FIELD WITH ARCHITECT. - ALL CONNECTIONS AND SUPPORTS ARE TO BE HIDDEN.
J2	(SEE DETAIL)	- CROSSWALK WITH PERSON WALKING	DIMENSIONAL ALUMINUM PLATE	(SEE DETAIL)	8/W-651	- COORDINATE FINAL MOUNTING LOCATION IN FIELD WITH ARCHITECT. - ALL CONNECTIONS AND SUPPORTS ARE TO BE HIDDEN.
K	- CAMPUS DIRECTORY - YOU ARE HERE - (BUILDING & STREET LABELS)	- VA LOGO - CAMPUS MAP - ARROW	ALUMINUM	18" X 18"	-	- FULL COLOR DIRECTORY WITH BUILDING LABELS, STREET LABELS AND OTHER MISC. SITE ELEMENTS. - OWNER WILL PROVIDE DIGITAL FILE, FOR CONTRACTOR'S USE.
L	Ramp Down	- ARROW	ALUMINUM	(SEE DETAIL)	6/W-651 (SIM.)	- COORDINATE MOUNTING HEIGHT AND FINAL LOCATION IN FIELD WITH ARCHITECT.
M1	ENTER	(SEE DETAIL)	DIMENSIONAL ALUMINUM PLATE	(FUNCTION OF MESSAGE)	11/W-651 (SIM.)	- CHANNEL SET DIMENSIONAL LETTERS. - MOUNT ON TOP OF CANOPY. - COORDINATE FINAL MOUNTING LOCATION IN FIELD WITH ARCHITECT.
M2	EXIT	(SEE DETAIL)	DIMENSIONAL ALUMINUM PLATE	(FUNCTION OF MESSAGE)	11/W-651	- CHANNEL SET DIMENSIONAL LETTERS. - MOUNT ON TOP OF CANOPY. - COORDINATE FINAL MOUNTING LOCATION IN FIELD WITH ARCHITECT.
N	(SEE DETAIL)	(SEE DETAIL)	ALUMINUM	(SEE DETAIL)	15/W-651	- CONSTRUCTION, COLOR AND ATTACHMENT METHOD TO MATCH EXISTING CAMPUS SIGN PROGRAM
P	(VARIES)	(NONE)	PLASTIC LAMINATE PLATE WITH ROUTED MESSAGE	2" X 8"	-	- MESSAGE IS ASSOCIATED WITH ROOM USE AND IS TO BE SELECTED BY OWNER PRIOR TO FABRICATION. - COLOR TO MATCH DOOR FRAME FINISH. - MESSAGE TO BE CONTRASTING COLOR. - ATTACH TO "OUTSIDE" FACE OF DOOR FRAME HEAD, CENTERED ON OPENING. UTILIZE CONCEALED FASTENERS.
Q	CLEARANCE 8'-2"	- CROSS HATCH AT NON- MESSAGE AREA	(SEE DETAIL)	(SEE DETAIL)	14/W-651	- FINAL CLEARANCE HEIGHT TO BE DETERMINED BY OWNER PRIOR TO SIGN FABRICATION. BID SHALL INCLUDE CONTRACTOR FIELD VERIFICATION OF MINIMUM CLEARANCE HEIGHT IN GARAGE AFTER ALL ELEMENTS ARE CONSTRUCTED AND INSTALLED, (INCLUDING STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND ARCHITECTURAL).
R	Elevator	- ELEVATOR SYMBOL	ALUMINUM	30" DIAMETER	6/W-651 (SIM.)	- ROUND FACE PLATE ATTACHED TO SUPPORT POSTS. - ANODIZED ALUMINUM FINISH. - DIAMOND GRADE REFLECTIVE FILM ON ENTIRE FACE, BLACK VINYL GRAPHICS/TEXT. - RE- DETAIL 7/W-651 FOR SYMBOL REFERENCE.
U	Ramp Up	- ARROW	ALUMINUM	(SEE DETAIL)	6/W-651 (SIM.)	- COORDINATE MOUNTING HEIGHT AND FINAL LOCATION IN FIELD WITH ARCHITECT.


[illegible]

Grand Junction VA  
Medical Center  
2121 North Avenue  
Grand Junction, CO 81501

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MEP:  ARCHITECTURE:  **CooverClark**  
Consulting Group, PA

TRAFFIC / STRUCTURE:




AMERICAN  
**STRUCTUREPOINT**  
INC.

PROJECT LEADER/ARCHITECT:

**GUIDON**   
DESIGN

2453 N. DELAWARE ST. INDIANAPOLIS, IN. 46205  
317.800.6388 [WWW.GUIDONDESIGN.COM](http://WWW.GUIDONDESIGN.COM)

**SUSTAINABLE ARCHITECTURE + ENGINEERING**

ADDENDUM #1 FOR CONSTRUCTION						
Drawing Title  SIGNAGE SCHEDULE		Project Title  PARKING STRUCTURE		Project Number 12.1042		OFFICE OF FACILITIES MANAGEMENT
				Building Number Bldg-39		
Approved for Design Concept: John Bartman John.Bartman@va.gov 970-263-5016		Location Grand Junction VA		Drawing Number		VA Project Number 575-206
				W-652		 Department of Veterans Affairs
		Date 3/10/2014	Checked By: Checker	Drawn By: Author		